Pioneer
sound. vision. soul

2005 Plasma
Field Service Guide

Technical Training Department
1925 E. Dominguez Street
Long Beach, CA 90810

Pioneer
SERVICE

Preface
Recommended preparations. pg 5

General Information
Model history. pg 6
Tech reference. pg 7
Shut down information. pg 9
Power down information. pg 16
Scan IC replacement. pg 18
PDP & PRO-435PU & PDP & PRO-505PU. pg 22
PDP-4350 & 5050SX

PDP & PRO-434PU & PDP & PRO-504PU. pg 23
PDP-504 & 505CMX, 5004, 5014, PRO1010HD. Pg 24
PDP-434CMX, 4304, 4314 & PRO810HD. pg 25
Tips. pg 26

PDP-503PU, CMX, PRO1000HD & HDI. pg 28
PDP-433PU, CMX, PRO800HD & HDI. pg 29
Bulletin. pg 30
Tips. pg 45

Preface

This field service guide will address key points of Pioneer Plasma Displays.

This guide was designed as a servicing aid and is not intended to replace the service manual. The student should have the appropriate service manual on hand when when using this guide. Data in the service manual for this unit contains specific information on safety, parts and adjustments.

Safety information

Important safety data for this Pioneer model is contained in the service manual. Before returning the unit to the customer, complete all product safety obligations and tests. Technicians who bypass safety features or fail to carry out safety checks may expose themselves and others to possible injury, and may be liable for any resulting damages.

For more information on electronic circuits and block diagrams refer to the Service manuals.

Lead in the solder used in this product is a known reproductive toxicant which may cause birth defects or other reproductive harm. (California Health and Safety Code Section 25249.5).

When servicing this or handling circuit boards and other components which contain solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

Recommended preparations for Plasma service

Scheduling

1. Request purchase info from customer. Advise that tech will need to see invoice at time of service call.

2. Request model and serial number (use model/system chart). Serial number of panel can be on top, bottom, side edges or by input jacks, as well as on the back. Advise them not to use number on speaker.

3. Request details of symptom; is there a picture momentarally, on screen display. If it powers down request blink sequence of power indicators (red and/or green). For two piece models, need this for both units.

4. Tech should check tips and bulletins on http://www.pioneerelectronics.com/ select “authorized service companies” and login.

5. If there’s any uncertainty call your Office of Technical Service.

Performing service call

1. Tech should take service manual, necessary tips and bulletins, static strap, scope and HD generator.

2. Before opening unit check for picture aberrations and status of power indicators.

3. If unit has a trap switch do not plug into AC with switch released.

4. Record model and serial number of unit that is serviced (panel, media receiver and/or speakers).

5. Once operational record hour meter on warranty claim.

PIONEER PLASMA MODEL LIST

		Consumer Models						Similar Industrial Model	Unique Industrial Model
		System model #	Media receiver	Plasma Display	Speakers	Table top stand	Wall mount bracket		
G1	Regular Model	NA	NA	PDP501MX	NA	NA	NA	PDPV501X	PDPV401 PDPV402
G2	Regular Model	NA	NA	PDP505HD	NA	NA	NA	PDP502MX	PDPV402/1
G3	Regular Model	PDP5030HD	PDPR03U	PDP503PU	PDPS06LR	PDKTS01	NA		PDP610MX
		PDP5031HD	PDPR03U	PDP503PU	PDPS06LR	PDKTS01	PWM1011		
		PDP4330HD	PDPR03U	PDP433PU	PDPS09LR	PDKTS01	NA		
		NA	NA	PDP4300	NA	NA	NA	PDP433CMX	
		PDP4310	NA	PDP4300	PDPS09LR	PDKTS01	NA		
	Elite Model	NA	NA	PRO800HD	NA	NA	NA		
				PRO800HDI					
				PRO1000HD				PDP503CMX	
				PRO1000HDI					
G4	Regular Model	PDP5040HD	PDPR04U	PDP504PU	PDPS12LR	PDKTS04	NA		
		PDP5041HD	PDPR04U	PDP504PU	PDPS12LR	PDKTS04	PWM1011		
		PDP4340HD	PDPR04U	PDP434PU	PDPS13LR	PDKTS04	NA		
		PDP4341HD	PDPR04U	PDP434PU	PDPS13LR	PDKTS04	PWM1011		
		PDP5004C	NA	PDP5004	PDPS28LR	PDKTS07	NA	PDP434CMX PDP504CMX PDP505CMX	
		PDP4312	NA	PDP4304	PDPS27LR	PDKTS07	NA		
		NA	NA	PDP5004	NA	NA	NA		
				PDP5014					
				PDP4304					
				PDP4314					
	Elite Model	NA	NA	PRO1010HD	NA	NA	NA		
				PRO810HD					
		PRO1110HD	PROR04U	PRO504PU	PDPS19LR	PDK1011	NA		
		PRO910HD	PROR04U	PRO434PU	PDPS20LR	PDK1011	NA		
G4.5	Regular Model	PDP5045HD	PDPR05U	PDP504PU	PDPS12LR	PDKTS04	NA		
		PDP4345HD	PDPR05U	PDP434PU	PDPS13LR	PDKTS04	NA		
G5	Regular Model	PDP4350HD	PDPAR05U	PDP435PU	PDPS30LR	PDKTS05	NA		PDP424MV
		PDP4351HD	PDPAR05U	PDP435PU	PDPS30LR	PDKTS05	PWM1011		
		PDP5050HD	PDPAR05U	PDP505PU	PDPS31LR	PDKTS05	NA		
		PDP5051HD	PDPAR05U	PDP505PU	PDPS31LR	PDKTS05	PWM1011		
		PDP43A5HD	NA	PDP4350SX	PDPS33LR	PDKTS10	NA		
		PDP50A5HD	NA	PDP5050SX	PDPS34LR	PDKTS10	NA		
		NA	NA	PDP6100HD	NA	NA	NA	PDP614MX	
	Elite Model	PRO1120HD	PROR05U	PRO505PU	PDPS23LR	PDK1012	NA		
		PRO920HD	PROR05U	PRO435PU	PDPS24LR	PDK1012	NA		
		NA	NA	PRO1410HD	NA	NA	NA	PDP614MX	
G6	Regular Model	PDP42A3HD	NA	NA	NA	NA	NA		PDP425MX PDP505MX
		PDP4214HD	NA	NA	NA	NA	NA		
		PDP4360HD	PDPR06U	PDP436PU	PDPS37LR	PDKTS10	NA		
		PDP4361HD	PDPR06U	PDP436PU	PDPS37LR	PDKTS11	PWMF110		
		PDP5060HD	PDPR06U	PDP506PU	PDPS38LR	PDKTS10	NA		
		PDP5061HD	PDPR06U	PDP506PU	PDPS38LR	PDKTS10	PWMF110		
	Elite Model	PRO930HD	PROR06U	PRO436PU	PDPS35LR	PDK1013	NA		
		PRO1130HD	PROR06U	PRO506PU	PDPS36LR	PDK1013	NA		

Pioneer plasma reference
3rd to 5th generation

	Integrator mode	*Factory mode*	*Data backup*	*Trap indication*	*Trap override*	*PDP display w/o media receiver*	*Media receiver kit*
G3 PU	**n/a**	**3 or 4**	**IC1204 Digital video**	**Red blinks fast**	**Enter factory mode**	**E01**	**PDP-R03U-SK**
PRO1000HD PRO800HD	**1, locked**	**3**	**6**	**n/a**	**n/a**	**n/a**	**n/a**
PRO1000HDi PRO800HDi	**1**	**3**	**6**	**Red/green flash, pause**	**9**	**n/a**	**n/a**
G3 CMX	**1**	**3**	**6**	**n/a**	**n/a**	**n/a**	**n/a**
G4 PU	**1***	**5**	**7**	**Red and green on**	**8**	**Red & green boxes**	**PDP-R04U-SK PRO-R04U-SK**
G4 one piece	**2 or n/a**	**5**	**7**	**Red and green on**	**n/a or 8**	**n/a**	**n/a**
G5 PU	**1***	**5**	**7**	**Red and green on**	**8****	**Red & green boxes**	**PDP-R05U-SK PRO-R05U-SK PDP-AR05U-SK**
G5 SX	**10***	**5**	**7**	**Red and green on**	**8**	**n/a**	**n/a**

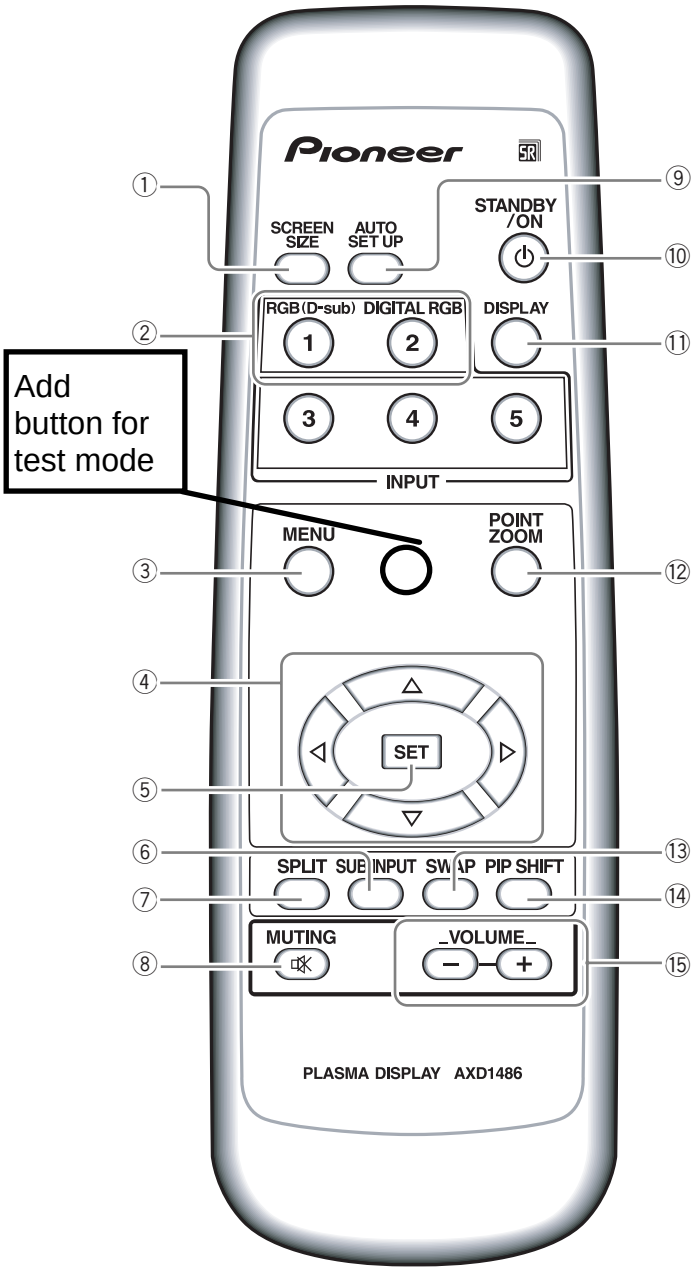
***RS232 change only. Disables remote. **Only media receiver has trap.**

1) From standby, push menu, then power.
2) From standby, push display (shows call 1), hold display (shows call 2), menu.
3) From standby, push menu, then set, then power.
4) From standby, push set, then display, then power.
5) From standby, press display, wait 4 seconds; then left, up, left, right, power in sequence.
MR must be connected for PU models.
6) Use digital video for service. Data from RGB loads at power on.
7) Use digital video for service. In factory mode, info layer go to digital EEPROM.
Should be adjust N/G, backup OK. Push set, select data transfer-yes.
Goes to service part; select no. If replacing RGB or MR I/F data updates at power off.
8) Go to initialize layer of factory mode and hold display key until red led goes out.
9) Hold input until LEDs stay lit. Then push down, input, up, power in sequence.
10) Hold the VOLUME up or down key for 3-10 seconds. Then within 3 seconds hold the SPLIT key for 3-10 seconds. Then within 3 seconds use the ENTER key to set to RS-232C (the baud rate last selected is chosen) or the HOME MENU key to set to SR+.

Power Supply Upgrade

3rd generation units that have power supply AXY1059-A to G are being covered for an upgrade to AXX1064 (AXY1059-H). See bulletin for details. Serial # is on lower edge of front bezel, except for PRO, which are adjacent to input jacks. An orange dot indicates upgrade is done. Customer responsible for other repairs.

■ **REMOTE CONTROL UNIT (AXD1486). $21.12**



① **SCREEN SIZE button**
Press to select the screen size.

② **INPUT buttons**
Press to select the input .

③ **MENU button**
Press to open and close the on-screen menu.

④ **ADJUST (▲ / ▼ / ► / ◄) buttons**
Use to navigate menu screens and to adjust various settings on the unit.
Usage of cursor buttons within operations is clearly indicated at the bottom the on-screen menu display.

⑤ **SET button**
Press to adjust or enter various settings on the unit.

⑥ **SUB INPUT button**
During multi-screen display, use this button to change inputs to subscreens.

⑦ **SPLIT button**
Press to switch to multi-screen display.

⑧ **MUTING button**
Press to mute the volume.

⑨ **AUTO SET UP button**
When using computer signal input, automatically sets the [POSITION], [CLOCK] and [PHASE] to optimum values.

⑩ **STANDBY/ON button**
Press to put the unit in operation or standby mode.

⑪ **DISPLAY button**
Press to view the unit's current input and setup mode.

⑫ **POINT ZOOM button**
Use to select and enlarge one part of the screen.
SWAP button During multi-screen display, use this button to switch between main screen and subscreen.

⑭ **PIP SHIFT button**
When using PinP mode with multi-screen display, use this button to move the position of subscreen.

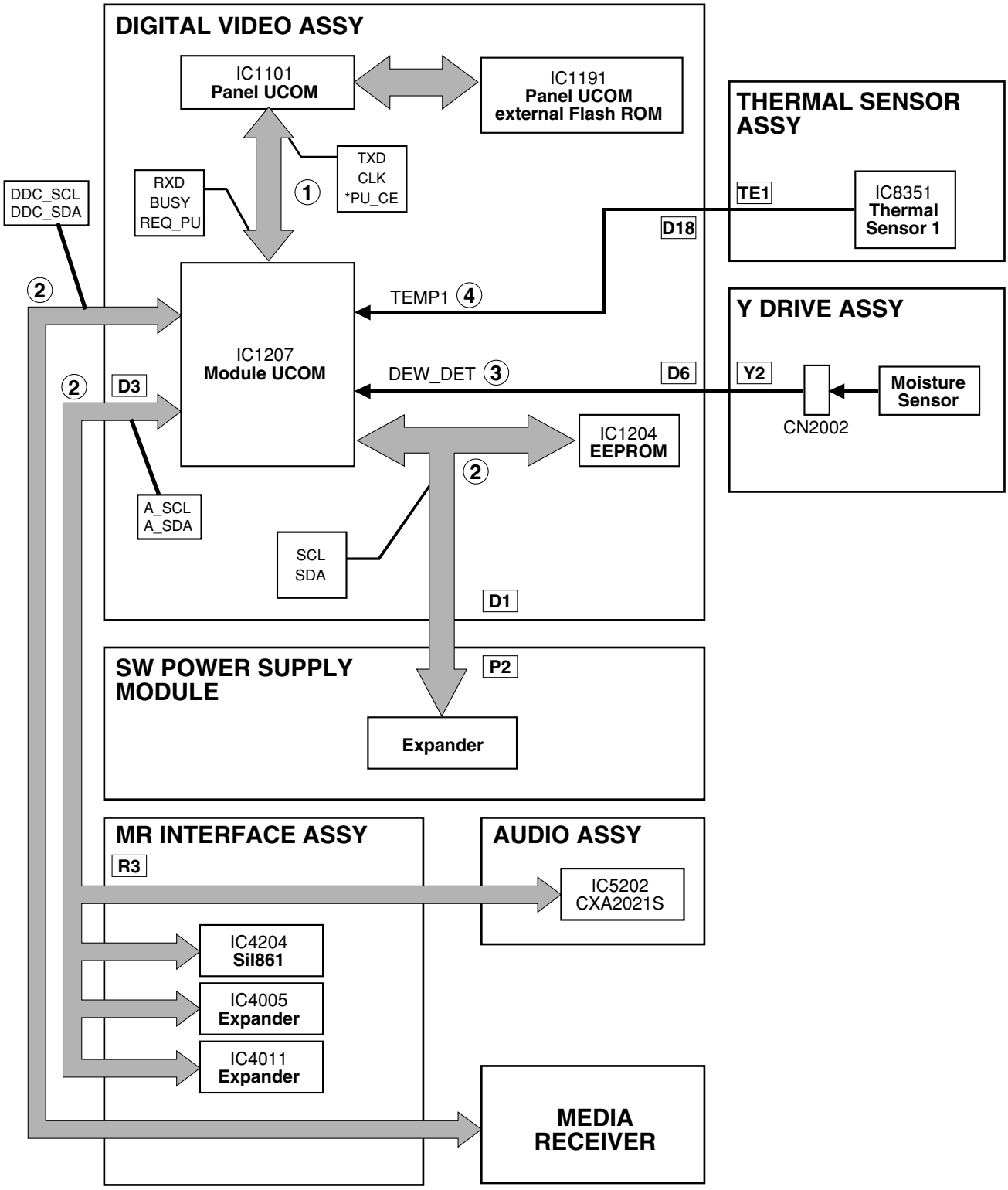
⑮ **VOLUME (+/–) buttons**
Use to adjust the volume.

RS232 control of PU units requires an interface and system cable.

G3. GGF1428, $210.70

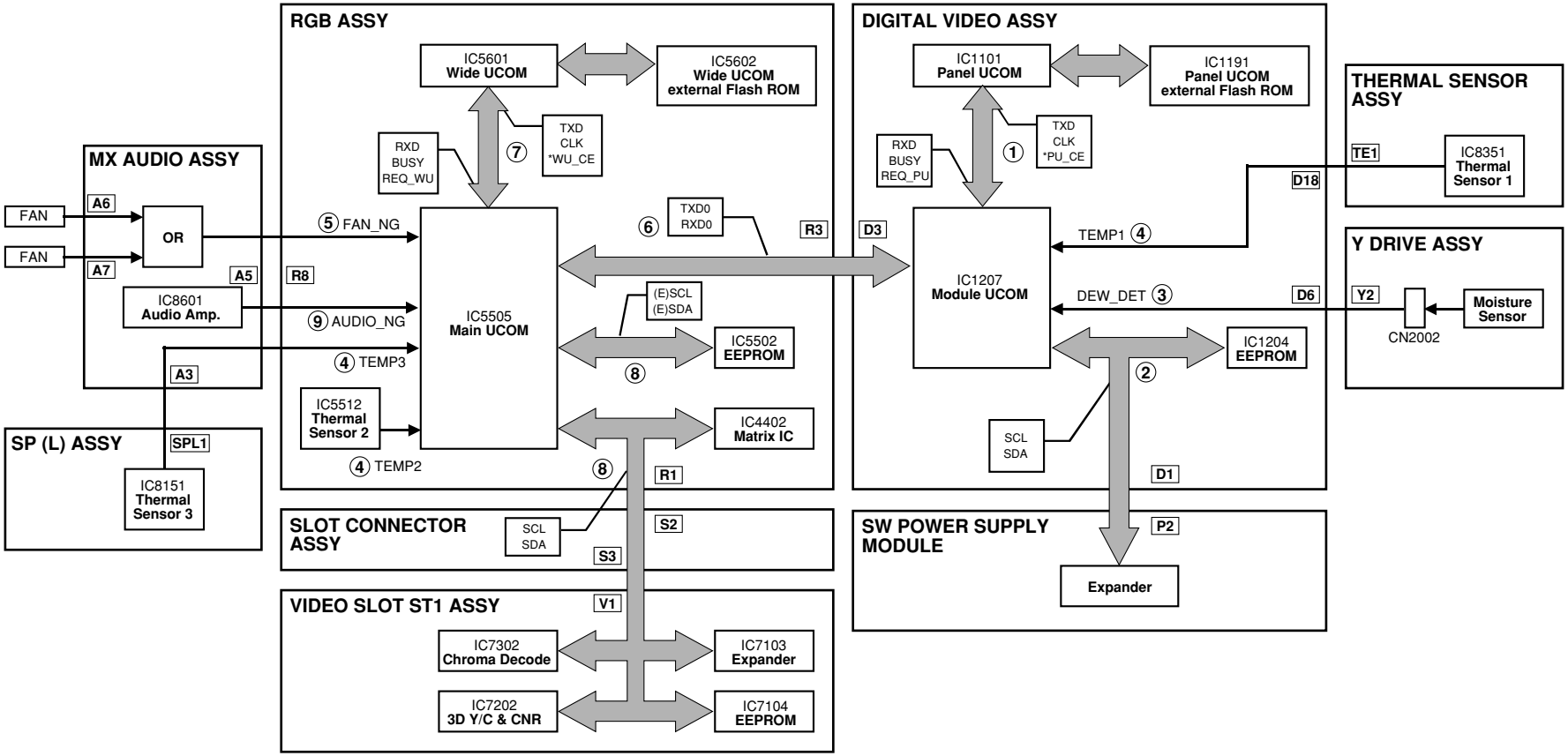
G4 & 5. GGF1475, $51.53.

● **Block Diagram of Shut Down Signal System; standby LED (green) blinks.**



Note: ① - ④ shows number of times LED blinks when shut down occurrs.

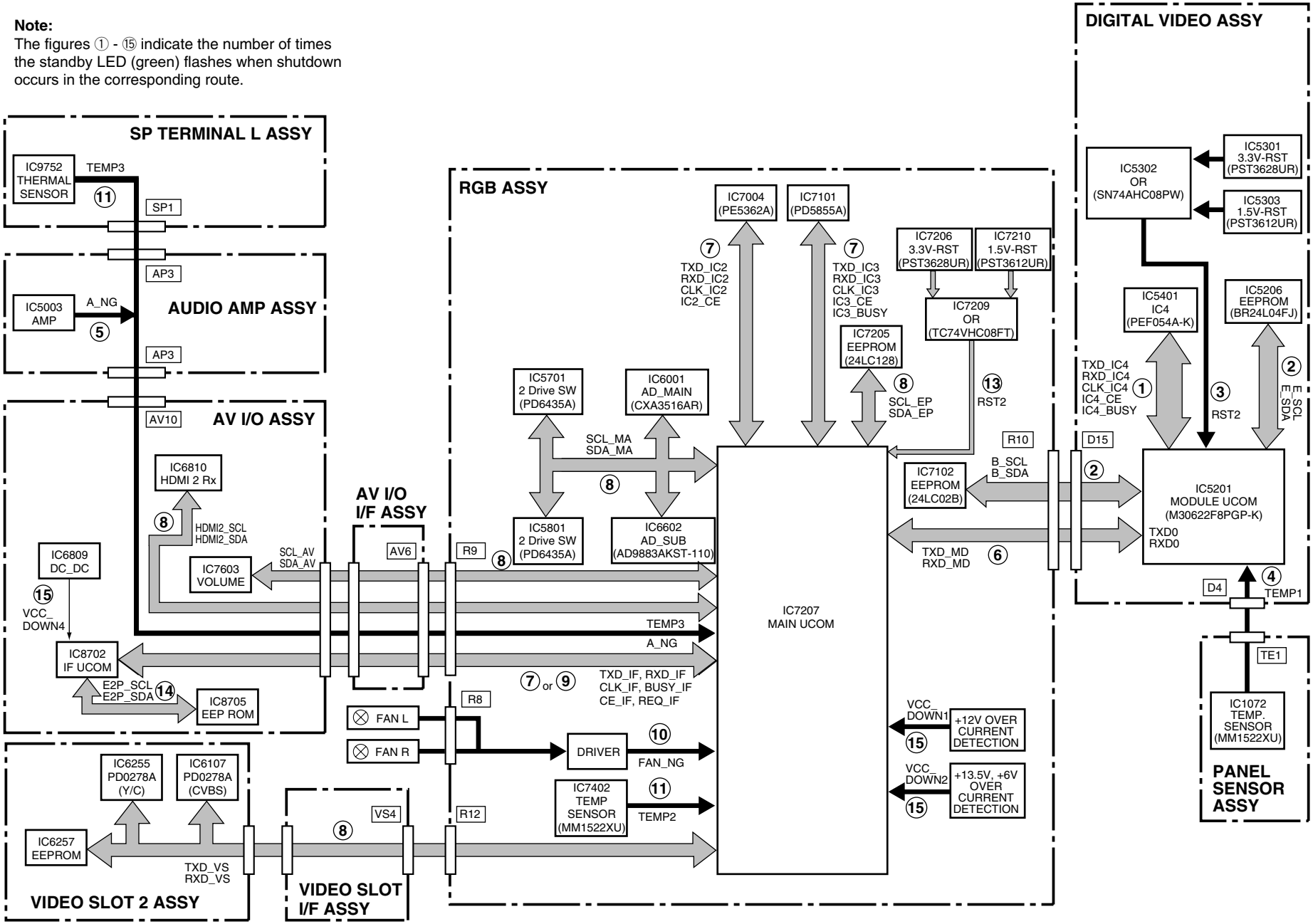
Block Diagram OF The Shutdown Signal System ("StandBy/ON" LED: Blinking In Green)



Note: The figures ① - ⑧ indicate the number of times the "STANDBY/ON" LED blinks when shutdown occurs in the corresponding route.

• Block diagram of the shutdown signal system

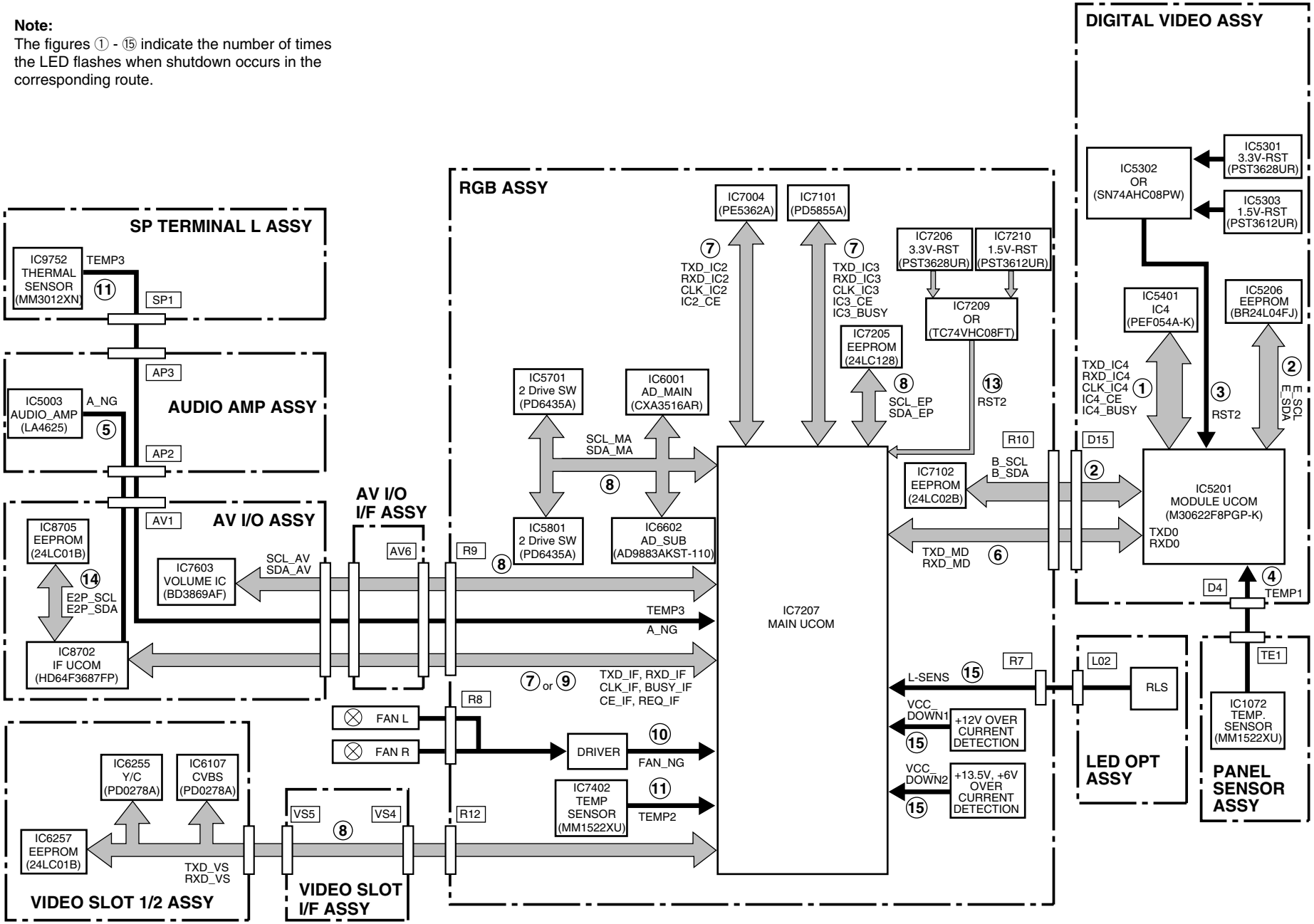
Note:
The figures ① - ⑮ indicate the number of times the standby LED (green) flashes when shutdown occurs in the corresponding route.



PDP-5004, PDP-5014, PDP-4304, PDP-4314, PRO-810 & PRO-1010

• Block diagram of the shutdown signal system

Note:
The figures ① - ⑮ indicate the number of times the LED flashes when shutdown occurs in the corresponding route.



PDP-504 & PDP-434CMX

• Identification of locations having abnormality by the number of times the LEDs flash

■ On Shutdown and power-down

Shutdown

• Operation: When the microcomputer detects any abnormality, it forcibly turns off the unit.
• LED indication: The green LED flashes.

Power-down

• Operation: When the unit is in emergency status, a protection circuit is activated, and the power is turned off.
• LED indication: The red LED flashes.

Category	MR-LED		PANEL-LED		Content	Unit's operation	Warning indication when the MR is connected
	STB	ON	STB	ON			
SD	Lit			1 time	Communication failure of the panel-drive IC	Immediate shutdown	
	Lit			2 times	Communication failure of the module IIC	Immediate shutdown	
	Lit			3 times	Power decrease of the digital DC-DC converter	Immediate shutdown	
	Lit			4 times	Panel having high temperature	Shutdown 30 seconds after warning	Powering off. Internal temperature too high Check temperature around PDP. Check temperature around media receiver. [SD04]
	Lit			5 times	Audio failure	Shutdown 3 seconds after warning	Powering off. Internal protection circuits activated, Is there a short in speaker cable ? [SD05]
		6 times	Lit		Communication failure of the module microcomputer	Immediate shutdown	
		7 times	Lit		Main 3-wire serial communication in failure	Immediate shutdown	
		8 times	Lit		Communication failure of the main IIC	Immediate shutdown	
		9 times	Lit		Communication failure of the main microcomputer	Immediate shutdown	
		10 times	Lit		Fan in failure	Immediate shutdown	
		11 times	Lit		MR or unit having higher temperature	Shutdown 30 seconds after warning	Powering off. Internal temperature too high Check temperature around PDP. Check temperature around media receiver. [SD11]
		12 times	Lit		Communication failure of the digital tuner	Immediate shutdown	
		13 times	Lit		MR-ASIC power (DC-DC) in failure	Immediate shutdown	
		14 times	Lit		Communication failure of IF-EEPROM	Immediate shutdown	
PD	1 time		Lit		MR power supply	Immediate power-down	
	Lit		2 times		Panel-POWER SUPPLY	Immediate power-down	
	Lit		3 times		SCAN	Immediate power-down	
	Lit		4 times		SCAN-5V	Immediate power-down	
	Lit		5 times		Y-DRIVE	Immediate power-down	
	Lit		6 times		Y-DCDC	Immediate power-down	
	Lit		7 times		Y-SUS	Immediate power-down	
	Lit		8 times		ADDRESS	Immediate power-down	
	Lit		9 times		X-DRIVE	Immediate power-down	
	Lit		10 times		X-DCDC	Immediate power-down	
	Lit		11 times		X-SUS	Immediate power-down	
	Lit		12 times		DIGITAL-DCDC	Immediate power-down	
	Lit		15 times		UNKNOWN ∗	Immediate power-down	

∗ If the unit cannot identify which protection circuit was activated, even if a power-down had been detected, the red LED may flash 15 times.

G-5SX Models (PDP-4350SX & PDP-5050SX)

• Diagnosis of the shutdown

No. of times of LED flashing Category	Category	SD Circuit in operation	Defective Assy	Reason for shutdown	Point to be Checked	Possible Defective Part	Remarks
Green 1	SD1	Communication failure of the panel-drive IC	DIGITAL VIDEO Assy	Communication failure of IC4	IC4 BLOCK,	IC5401	
					PANEL FLASH BLOCK	IC5305	
				Writing failure of IC4			After turning the unit on again, check if the data on the version can be read with the GS1 command.
Green 2	SD2	Communication failure of the module IIC (Check the shutdown subcategory on the Factory menu.)	DIGITAL VIDEO Assy	Communication failure of the EEPROM	MODULE UCOM BLOCK	IC5206	
			MAIN BOARD Assy	Communication failure of the EEPROM	IF BLOCK	IC7405	
			AUDIO AMP Assy	Defective volume IC	AUDIO AMP Assy	IC3502	
			DIGITAL VIDEO Assy or AUDIO AMP Assy	Disconnection of cable	CN4203(D18) - CN3501(A1)		Check if the cable is disconnected or not securely connected.
Green 3	SD3	Power decrease of DIGITAL-DC-DC	DIGITAL VIDEO Assy	Defective DC-DC converter	DIGITAL DD CON BLOCK	U5602	Check if 3.3 V and 1.5V are activated.
				Defective RST IC	PANEL FLASH BLOCK	IC5301,IC5302, IC5303	
			PANEL POWER SUPPLY Assy	No startup of 12 V			
Green 4	SD4	Panel having higher temperature (TEMP1)		Panel having higher temperature	Surrounding temperature		Shutdown occurs when the sensor temperature becomes 74°C or more
			DIGITAL VIDEO Assy or PANEL SENSOR Assy	Disconnection of cable	CN5202(D4) - CN1071(TE1)		Check if the cable is disconnected or not securely connected.
Green 5	SD5	Audio failure		Speaker short-circuited	Speaker terminals		Check if the speaker cables are in contact with the chassis, etc.
			AUDIO AMP Assy	Defective AMP IC	AUDIO AMP Assy	IC3504	
			DIGITAL VIDEO Assy or AUDIO AMP Assy	Disconnection of cable	CN4203(D18) - CN3501(A1)		Check if the cable is disconnected or not securely connected.
Green 6	SD6	Communication failure of the module microcomputer	DIGITAL VIDEO Assy	Failure in Module Ucom or defective peripheral circuits	MODULE UCOM BLOCK	IC5201	
				Failure in writing in the Module Ucom			
			MAIN BOARD Assy or DIGITAL VIDEO Assy	Disconnection of cable	CN7401(M6) - CN4201(D17)		Check if the cable is disconnected or not securely connected.
				Failure in communication (MTXD, MRXD) between the IC5201(Module Ucom) and IC7207 (Main Ucom)			
Green 7	SD7	Serial communication failure of the 3-wire of the main microcomputer	MAIN BOARD Assy	Failure in CELIA or defective peripheral circuits	CELIA BLOCK	IC7004	
				Failure in MIKE or defective peripheral circuits	MIKE BLOCK	IC7101	
			AV BOARD Assy	Failure in IF Ucom or defective peripheral circuits	UIF UCOM BLOCK	IC8705	
			MAIN BOARD Assy or AV BOARD Assy	Failure in communication (TXD_IC2, RXD_IC2, CLK_IC2, IC2_CE, IC2_EMG) (TXD_IC3, RXD_IC3, CLK_IC3,IC3_CE, IC3_BUSY) between one of the above devices and IC7207 (Main Ucom)			

No. of times of LED flashing Category	Category	SD Circuit in operation	Defective Assy	Reason for shutdown	Point to be Checked	Possible Defective Part	Remarks
Green 8	SD8	IIC communication failure of the main microcomputer (Confirm the SD subcategory in the factory menu)	MAIN BOARD Assy	Failure in MICHAEL (MAIN) or defective peripheral circuits	MICHAEL BLOCK	IC6107	
				Failure in MICHAEL (SUB) or defective peripheral circuits	MICHAEL BLOCK	IC6255	
				Failure in AD (MAIN) or defective peripheral circuits	AD BLOCK	IC6402	
				Failure in AD (SUB) or defective peripheral circuits	AD BLOCK	IC6602	
				Failure in ROZ or defective peripheral circuits	ROZ BLOCK	IC6951	
				Failure in EEPROM or defective peripheral circuits	MAIN UCOM BLOCK	IC7205	
				Failure in HDMI Rx or defective peripheral circuits	HDMI RX BLOCK	IC6881	
				Failure in HDCP Tx or defective peripheral circuits	IF BLOCK	IC7401	
			AV BOARD Assy	Failure in TUNER UNIT or defective peripheral circuits	TUNER BLOCK	U7501,U7502	
				Failure in AV_SW or defective peripheral circuits	AV SW BLOCK	IC8002	
				Failure in VIDEO_SW or defective peripheral circuits	AV SW BLOCK	IC8005	
			TUNER BOARD Assy	Defective DTV tuner			
			MAIN BOARD Assy or AV BOARD Assy or TUNER BOARD Assy	Failure in communication (SCL_AV, SDA_AV, SCL_MAIN, SDA_MAIN, SCL_HDMI, SDA_HDMI, SCL_HDCP, SDA_HDCP,SCL_EP, SDA_EP) between one of the above devices and IC7207 (Main Ucom)			
Green 9	SD9	Communication failure in main microcomputer	MAIN BOARD Assy	Failure in writing in the Main Ucom	MAIN UCOM BLOCK	IC7207	
			MAIN BOARD Assy or AV BOARD Assy	Disconnection of cable	CN7455(M2) - CN8652(AV2)		Check if the cable is disconnected or not securely connected.
				Failure in communication (TXD_IF, RXD_IF,CLK_IF,BUSY_IF, CE_IF,REQ_IF) between the IC8702(IF Ucom) and IC7207 (Main Ucom)			
Green 10	SD10	Fan failure	FAN	Failure in the fan motor or fan stopped by attached dust			
			MAIN BOARD Assy or AV BOARD Assy	Disconnection of cable	CN7454(M1) - CN8651(AV1)		Check if the cable is disconnected or not securely connected.
			MAIN BOARD Assy or SR Assy		CN7454(M7) - CN8651(SR2)		
			AV BOARD Assy		FAN-CN8505(AV6)		
			SR Assy		FAN-CN9505(SR4) or FAN-CN9506(SR3)		
Green 11	SD11	Unit having higher temperature (TEMP2)		Unit having higher temperature	Surrounding temperature		
Green 12	SD12	DIGITAL TUNER	TUNER BOARD Assy	Defective DTV tuner			
			MAIN BOARD Assy or TUNER BOARD Assy	Disconnection of cable	CN7455(M2) - CN8652(AV2)		Check if the cable is disconnected or not securely connected.
				Failure in communication (TXDC, RXDC) between the DTV tuner and IC7207 (Main Ucom)			
Green 13	SD13	ASIC power supply (DC-DC)	AV BOARD Assy	Defective DC-DC converter	AV REG BLOCK	U8502	Check if 3.3 V and 1.5 V are activated.
			MAIN BOARD Assy	Defective RST IC	MAIN UCOM BLOCK	IC7206, IC7210	
			MR POWER SUPPLY Assy	No startup of 12 V			
Green 14	SD14	Communication failure	AV BOARD Assy	Failure in EEPROM or defective peripheral circuits	UIF UCOM BLOCK	IC8705	
			MAIN BOARD Assy or AV BOARD Assy	Disconnection of cable	CN7454(M1) - CN8651(AV1)		Check if the cable is disconnected or not securely connected.
				Failure in communication (SCL_EP2/SDA_EP2) between the IC8705(EEPROM) and IC7207 (Main Ucom)			

● G3 Diagnosis of the error point in the various protection circuit (P.D. circuit) operation (Red LED blinks)

Number of Blinks	P.D. Point in Operation	Error Pont	Possible Part of Error	Circuit State	Operation P.D. Circuit	Diagnosis Condition
1	Y DRIVE	Y DRIVE Assy	IC2206, IC2214 (Pulse module), IC2203, IC2204, IC2212, IC2213, IC2213, IC2217, R2209	K2211 Lo	VCP OCP	
2	Y DC DC	VOFS D/D CONV. BLOCK (Y DRIVE Assy)	IC2702, IC2709, IC2715	K2712 Lo	VOFS OVP	
		VOFS D/D CONV. BLOCK (Y DRIVE Assy)	IC2701, IC2702, IC2709, IC2715	K2709 Lo	VOFS UVP	Drive section (control signal, output elements etc.) in normal operation
			Q2211, Q2212, R2277, IC2208, IC2210			VOFS D/D CONV. BLOCK in normal operation
		VH D/D CONV. BLOCK (Y DRIVE Assy)	IC2712, IC2716	K2719 Lo	VH OVP	
		VH D/D CONV. BLOCK (Y DRIVE Assy)	IC2711, IC2712, IC2716	K2718 Lo	VH UVP	Drive section (control signal, output elements etc.) in normal operation
		SCAN (A), (B) Assy	SCAN IC			VH D/D CONV. BLOCK in normal operation
		IC5V D/D CONV. BLOCK (Y DRIVE Assy)	IC2704, IC2706, IC2717			SCAN Assy in normal operation
		SCAN (A), (B) Assy	SCAN IC	K2713 Lo	IC5V UVP	IC5V D/D CONV. BLOCK in normal operation
		IC5V D/D CONV. BLOCK (Y DRIVE Assy)	IC2704, IC2706, IC2717			SCAN Assy in normal operation
3	X DC DC	VRN D/D CONV. BLOCK (X DRIVE Assy)	IC3702, IC3712	K3708 Lo	VRN OVP	
		VRN D/D CONV. BLOCK (X DRIVE Assy)	IC3701, IC3702, IC3712	K3705 Lo	VRN UVP	Drive section (control signal, output elements etc.) in normal operation
		X DRIVE Assy	Q3122			VRN D/D CONV. BLOCK in normal operation
4	X DRIVE	X DRIVE Assy	IC3200, IC3201 (pulse module), IC3103, IC3104, IC3106, IC3107, IC3110, IC3113, R3109	K3103 Lo	VCP OCP	
			Q3122	K3102 Lo	VRN OCP	Deleted by SI-D03010.
5	PS	X DRIVE Assy	IC3200, IC3201 (Pulse module)			When P4 connector disconnected, P.D. does not occur
		Y DRIVE Assy	IC2206, IC2214 (Pulse module)			When P3 connector disconnected, P.D. does not occur
		MX AUDIO Assy	IC8601 (Audio IC)			When P6 connector disconnected, P.D. does not occur
		ADDRESS CONNECT A - D Assy, RESONANCE Assy, D/D CONV. BLOCK (DIGITAL VIDEO Assy)				When pin 5 of P2 connector disconnected, P.D. does not occur
		SW POWER SUPPLY Module	SW POWER SUPPLY Module			When the voltage is not output even if P4, P3 and P6 connectors disconnected
6	ADR	ADDRESS CONNECT A~D Assy	Disconnect D8 - D15 connectors		ADR. PD	
7	ADR K	RESONANCE Assy	TCP damage of IC6704 (ICP), disconnect D16 and D17 connectors, panel microcomputer is defective, outside Flash ROM of the panel microcomputer is defective.		ADR. K. PD	
8	DIGITAL DC DC	D/D CONV. BLOCK (DIGITAL VIDEO Assy)	IC1901	K1901 Lo	5.0V OVP	
				K1902 Lo	5.0V UVP	
		D/D CONV. BLOCK (DIGITAL VIDEO Assy)	IC1901	K1903 Lo	3.3V OVP	
				K1904 Lo	3.3V UVP	
		D/D CONV. BLOCK (DIGITAL VIDEO Assy)	IC1901	K1905 Lo	2.5V OVP	
				K1906 Lo	2.5V UVP	

Note: About PS PD
The condition that Red LED blinks five times (power supply PD)
1 When the internal protection circuit of SW POWER SUPPLY Module worked
2 When a microcomputer was not able to identify the PD point
↓
Being careful because the protection circuit of SW POWER SUPPLY Module cannot conclude that worked.

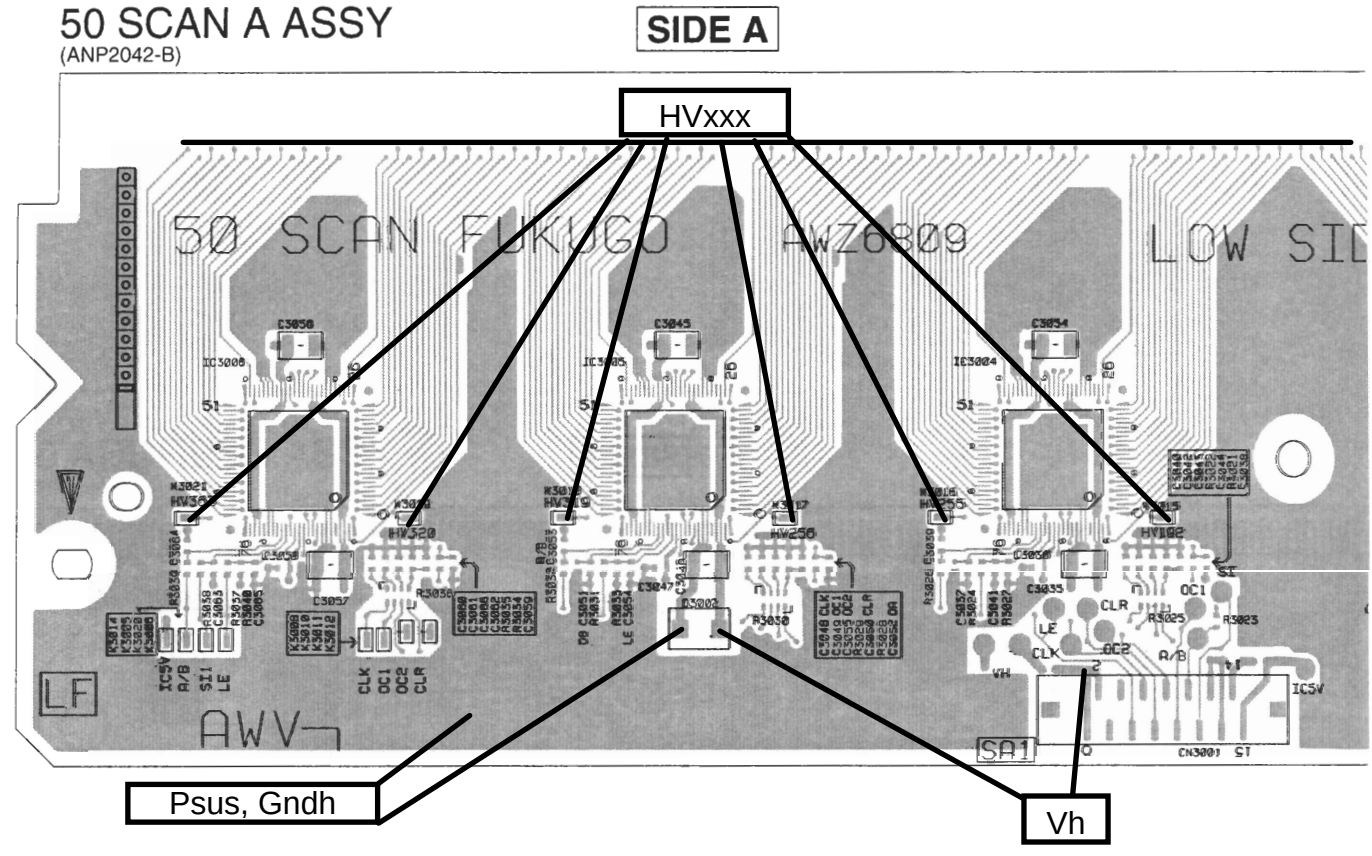
G-4 & 5

	PD Circuit in operation	Defective Assy	Reason for Power-down	Point to be Checked	Possible Defective Part	Remarks
2	POWER	POWER SUPPLY Unit				If the elapsed time from relay-on until the LED in the power supply unit lights is about 2-4 seconds, the defective assembly may be the 50 (43) X or Y DRIVE.
		50 (43) X DRIVE Assy	VSUS UVP	X SUS BLOCK	IC1203, IC1207 (mask module)	
		50 (43) Y DRIVE Assy	VSUS UVP	Y SUS BLOCK	IC2303, IC2307 (mask module)	
3	SCAN	50 (43) SCAN A, B Assy or 50 (43) Y DRIVE	VH UVP	SCAN IC	SCAN IC	
			VH UVP	VH DC/DC	IC2401, IC2402, IC2410, L2401	
			VH OVP	VH DC/DC	IC2402, IC2410	
			Disconnection of cable detected	CN2001, CN2301		
4	SCN-5V	50 (43) SCAN A, B Assy or 50 (43) Y DRIVE Assy	Disconnection of cable detected	CN2101, CN2102, CN2301		
			IC5V UVP	SCAN IC, IC5V DC/DC Y SUS BLOCK	SCAN IC, Q2401, Q2402, IC2304,	
			IC5V OVP	IC5V DC/DC	IC2403, IC2411	
5	Y-DRIVE	50 (43) Y DRIVE Assy	+16.5V OCP	Y SUS BLOCK	IC2303, IC2307 (mask module), IC2301, IC2304, IC2305, R2332	
6	Y-DCDC	50 (43) Y DRIVE Assy	VOFS UVP	VOFS DC/DC	IC2404, IC2412, Q2404, Q2407, Q2312	
			VOFS OVP	VOFS DC/DC	IC2404, IC2412	
7	Y-SUS	50 (43) Y DRIVE Assy	Power-down caused by detection of middle-point voltage	Y RESONANCE BLOCK	Q2202, Q2203, Q2214, Q2205, Q2206, Q2208, Q2209, Q2212, IC2201, IC2202, D2201, D2206, D2220, D2211, D2225, D2230, Control signal series resistors	
8	ADRS	50 (43) ADDRESS	Disconnection of cable detected	CN1501		
			Power-down caused by detection of a power surge	ADR RESONANCE BLOCK	R1631, Q1601, D1602	
9	X-DRIVE	50 (43) X DRIVE Assy	Disconnection of cable detected	CN1001, CN1201		
			+16.5V OCP	X SUS BLOCK	IC1203, IC1207 (mask module), IC1204, IC1206, R1230, IC1205	
			VRN OCP	X SUS BLOCK	Q1205, R1226, R1251	
10	X-DCDC	50 (43) X DRIVE Assy	VRN OVP	VRN DC/DC	IC1403, IC1404	
			VRN UVP	VRN DC/DC	IC1402, IC1403, IC1404	
				X SUS BLOCK	Q1205, R1226, R1251	
11	X-SUS	50 (43) X DRIVE Assy	Power-down caused by detection of middle-point voltage	X RESONANCE BLOCK	Q1102, Q1103, Q1114, Q1105, Q1108, Q1109, Q1111, Q1112, IC1101, IC1102, D1103, D1113, D1118, D1125, D1129, D1130, Control signal series resistors	On old version of G4, can be Digital Video.
12	DIG-DCDC	DIGITAL VIDEO Assy	DCDC +3.3V, +1.5V OVP	DC DC CONVERTER BLOCK	U5602 (DC DC CONVERTER Module)	
15	IC4	DIGITAL VIDEO Assy	IC4 Drive STOP	IC4 BLOCK	IC5401	Only applies to new version of G4 (/1). 13 blinks for G5.

OVP: **O**ver **V**oltag e **P**rotection UVP: **U**nder **V**oltage **P**rotection OCP: **O**ver **C**urrent **P**rotection

• Power-down diagnosis (defective points) G4 and 5.

Note: 50 (43) *** Assy means (50 *** Assy or 43 *** Assy.)



Checking drives and scan ICs

Use static precautions. Do not operate with any connectors unplugged. Replacing scan ICs in home is NOT recommended.

If scan board is disconnected, be sure to isolate buss bar also. Discharge all scan board connections including buss before reconnecting.

Unplug power connector from X or Y drive. Perform diode check with DVM from Vsus to ground. Should check as a diode. If Y drive shorted, next unplug Scan PCBs. If short goes away, check Scan ICs. If still shorted, replace drive.

With Scan PCB unplugged, perform diode check from Vh to Psus (buss bar). Should check as a diode. If shorted, check resistance from Vh and Gndh (buss bar) to HVxxx (each IC has 2 test pads). Should measure 3 to 5 meg ohm (varies by DVM). Remove IC (see SK-D04003) that measures different from others and recheck. If all check the same, but Vh is still shorted, you must check all 64 HV pins of each IC. Remove side rail and 32 feed throughs are accessible near the panel connection. If nothing shows up, loosen Scan PCB and flip over to access all 64 connections.

Pioneer

SERVICE KNOWHOW

Date: Sep.14, 2004 **No.:** **SKD04003** **(1/3)**

MODEL No. **MODEL No.**

See to following page

SUBJECT 1 How to remove the coating of SCAN IC.

[Required equipment]

tweezers (Curved Tip Tweezers are better than stright ones.)
cutting pliers

[Procedure]

1. Peel the coating a little at the place of lower left corner of SCAN IC which has rather more coating. (Please be careful not to damage the pattern.)

2. Make a notch at the peeled coating.

PIONEER CORPORATION

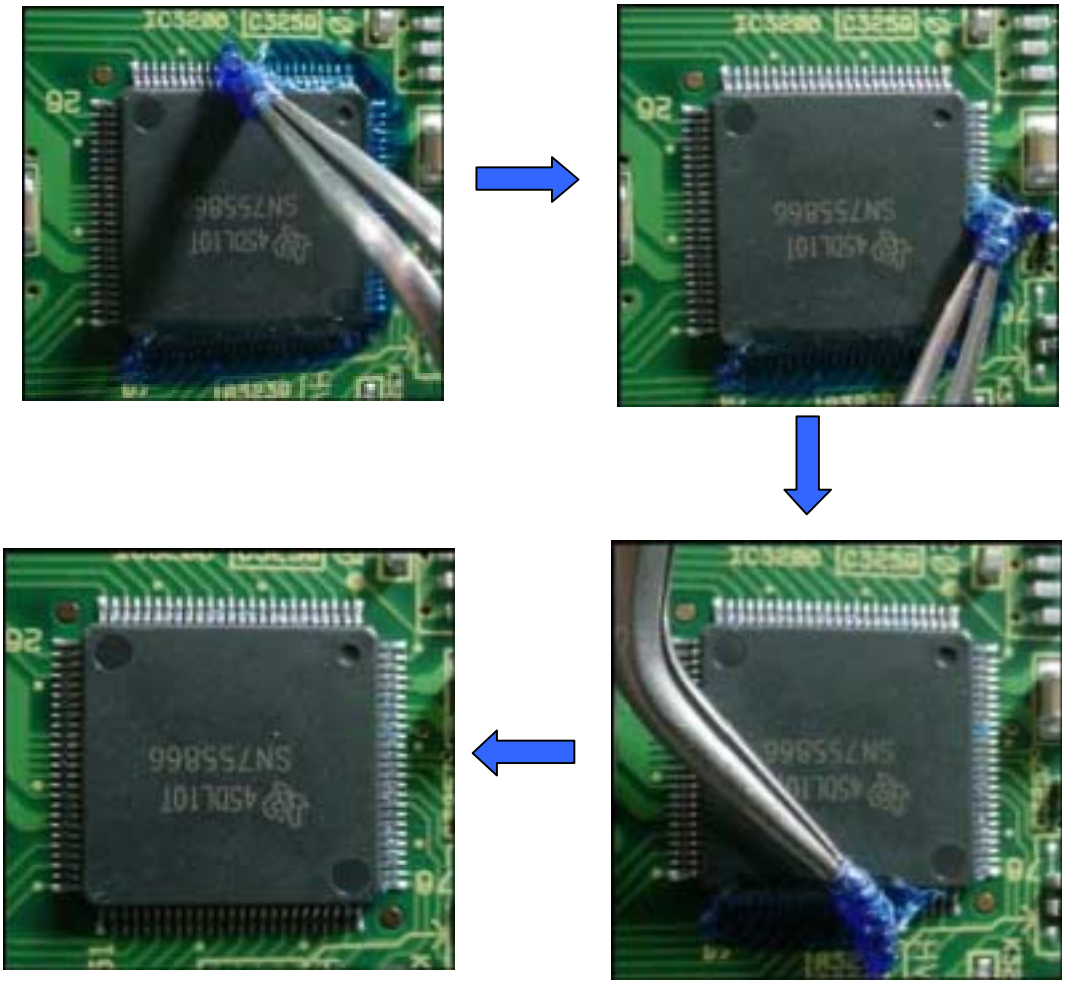
Memo: SY61

K.MATSUMURA ,MANAGER
DP
Technical Support Group
Service Support Division

Classify:

3. Pick up the peeled coating by tweezers, and wind them around the point of the tweezers while rotating tweezers.

4. Peel off the coating while rotating tweezers along the SCAN IC.



5. All the coating around SCAN IC is peeled off, the work is end.

   If you rotate tweezers as close as SCAN IC, the work goes well.

MODEL No.	MODEL No.
PDP-434PC/TAXQ	PDP-504PC/TAXQ
PDP-434PE/WYVI6	PDP-504PE/WYVI6
PDP-434PE/WYVI6XK	PDP-504PE/WYVI6XK
PDP-434PE/WYVIXK/1	PDP-504PE/WYVIXK/1
PDP-434PG/TLDFR	PDP-504PG/TLDFR
PDP-434PU/TUCK	PDP-504PU/TUCK
PDP-434PU/TUCKXC	PDP-504PU/TUCKXC
PDP-434CMX/LUC	PDP-504CMX/LUC
PDP-43MXE1/LDFK	PDP-50MXE1/LDFK
PDP-43MXE1-S/LDFK	PDP-50MXE1-S/LDFK
PDP-43MXE1-S/TAXQ	PDP-50MXE1-S/TAXQ
PDP-435PE/WYVI	PDP-505PE/WYVI
PDP-435PE/WYVIXK	PDP-505PE/WYVIXK
	PDP-5004/KUC

5th generation PLASMA
Quick Reference Chart

	PDP4350SX	PDP5050SX	PRO505PU	PDP505PU		PRO435PU	PDP435PU
Start of serial #				xxSS	xxPM		
Service Panel Assy	AWU1126	AWU1131	AWU1097	☚	☚	AWU1096	☚
Power Supply Module	☚	☚	AXY1085, 1107*	☚	☚	☚	☚
Digital Video Assy	☚	AWV2181	AWV2074, 2180 or 2235**	☚	☚	☚	☚
Scan IC	SN755866PZP	☚	AN16021AA	☚	☚	SN755866PZP	☚
Y Drive Assy	AWV2179	☚	AWV2082	☚	AWV2198	AWV2078	☚
X Drive Assy.	AWZ6991	☚	AWZ6877	☚	AWW1003	AWZ6865	☚
Panel IF Assy.	N/A	N/A	AWZ6841	☚	☚	☚	☚
Audio Amp Assy	☚	AWW1005	AWZ6863	☚	☚	☚	☚
TUNER BOARD ASSY	☚	AWE1303	N/A	N/A	N/A	N/A	N/A
MAIN BOARD ASSY	☚	AWV2183	N/A	N/A	N/A	N/A	N/A
AV BOARD ASSY	☚	AWW1007	N/A	N/A	N/A	N/A	N/A
MR POWER SUPPLY UNIT	☚	AXY1091	N/A	N/A	N/A	N/A	N/A
Front Case Assy	AMB2859	AMB2860	AMB2836	☚	☚	AMB2835	☚
AC cord	☚	☚	ADG1215	☚	☚	☚	☚
Remote Control	☚	AXD1502	AXD1490	AXD1489		AXD1490	AXD1489
System Cable (white/black)	N/A	N/A	ADF1027, 9 or 1	☚		☚	☚
Service Manual	☚	ARP3261	ARP3214	☚ & 3264	☚ & 3258	ARP3211	☚ & 3257, 63
Owner's Manual	☚	ARE1394	ARE1561	ARE1379		ARE1561	ARE1379

*Lead-free solder.

**Buzz reduced (must adjust 50"). May update with PC.

4th generation 2 piece PLASMA
Quick Reference Chart

	PRO504PU	PDP504PU	PRO434PU	PDP434PU
Service Panel Assy	**AWU1080, 1108 *(1)***	←	**AWU1079, 1109 *(1)***	←
Scan IC	**AN16003A**	←	**SN755864APZP**	←
Power Supply Module	**AXY1068**	←	←	←
Digital Video Assy	**AWV2018, 70 or AWV2110**	←	←	←
Y Drive Assy	**AWV2035, 68 AWV2144, 47**	←	**AWV2022, 66**	←
X Drive Assy.	**AWZ6808**	←	**AWZ6794, 6840**	←
Panel IF Assy.	**AWZ6768**	←	←	←
Audio Amp Assy	**AWZ6834**	←	←	←
Panel Sensor Assy.	**AWZ6795**	←	←	←
Panel LED Assy	**AWZ6787**	←	←	←
Panel Key Assy	**AWZ6788**	←	←	←
Key Control Assy	**AWZ6789**	←	←	←
Panel IR Assy	**AWZ6790**	←	←	←
HD SP Terminal	**AWZ6792**	←	←	←
Front Case Assy	**AMB2804**	**AMB2763**	**AMB2783**	**AMB2779**
Hex Hole Bolt	**SMZ80H400FZB**	←	←	←
AC cord	**ADG1215**	←	←	←
Protect Panel Assy	**AMR3348**	**AMR3385**	**AMR3345**	**AMR3383**
Remote Control	**AXD1484**	**AXD1478**	**AXD1484**	**AXD1478**
System Cable (white/black)	**ADF1021 or 7, 9**	←	←	←
Service Manual	**ARP3176**	←	**ARP3174**	←
Owner's Manual	**ARB1556**	**ARE1367**	**ARB1556**	**ARE1367**

(1) Adjustment varies depending on digital video. SI pending.

4th generation 50" PLASMA
Quick Reference Chart

	PDP-504CMX	PDP-5004 *PDP-5014*	PRO1010HD	PRO1010HD/1	PDP-504CMX/1 *PDP505CMX*	PDP-5004/1 *PDP-5014/1*
Service Panel Assy	AWU1095 AWU1108	AWV1108	☚	AWU1114	☚ *AWU1097*	☚
Scan IC	AN16003A	☚	☚	AN16021AA	☚	☚
Power Supply Module	AXY1083,1106	☚	☚	☚	☚	☚
Digital Video Assy	AWV2100 or 84***	AWV2100	☚	AWV2169	☚ *AWV2248*	☚
Y Drive Assy	AWV2035, 68 AWV2144, 47	AWV2144 AWV2147	☚	AWV2082	☚	☚
X Drive Assy.	AWZ6808	AWZ6959	☚	AWZ6877	☚	☚
AV I/O Assy	AWZ6847	AWZ6967 *AWZ6971*	AWZ6962	☚	AWZ6847 *AWW1062*	AWZ6967 *AWZ6971*
Audio Amp Assy	AWZ6848	☚	☚	☚	☚	☚
RGB Assy	AWZ6883 AWZ6960	AWZ6961	☚	AWZ6993	AWZ6992 *AWW1064*	AWZ6993
FAN Motor	AXM1044	☚	☚	☚	☚	☚
Panel Sensor Assy.	AWZ6795	☚	☚	AWZ6872	☚	☚
LED OPT Assy	AWZ6854	AWZ6966	☚	☚	AWZ6957	☚
Side/Front Key Assy	AWZ6852	AWZ6970	AWZ6852	☚	☚	AWZ6970
Key Control Assy	AWZ6853	AWZ6969	AWZ6965	☚	AWZ6981	AWZ6969
IR Receive Assy	AWZ6855	☚	☚	☚	AWZ6989	☚
Comm Slot Assy	AWZ6849	AWZ6968	AWZ6963	☚	AWZ6849	AWZ6968
Comm Slot I/F	AWZ6850	AWZ6964	☚	☚	AWZ6980	AWZ6964
Video Card	AWV2097* AWV2098*	AWV2159**	AWV2158**	☚	AWV2097* AWV2098*	AWV2159**
Video Slot I/F Assy	AWZ6851	☚	☚	☚	☚	☚
Front Case Assy	AMB2788	AMB2843 *AMB2844*	AMB2842	☚	AMB2788 *AMB2878*	AMB2843 *AMB2844*
Hex Hole Bolt	SMZ80H400FZB	☚	☚	☚	☚	☚
AC cord	ADG1215	☚	☚	☚	☚	☚
Protect Panel Assy	AMR3348	☚	☚	☚	☚ *N/A*	☚
Frame L	N/A	N/A	ANB1872	☚	N/A	N/A
Frame R	N/A	N/A	ANB1873	☚	N/A	N/A
Frame U	N/A	N/A	ANB1871	☚	N/A	N/A
Frame D	N/A	N/A	ANB1874	☚	N/A	N/A
Display Stand	AMR3264	N/A	N/A	N/A	AMR3264	N/A
Remote Control	AXD1486	AXD1496 *AXD1497*	AXD1496	☚	AXD1486	AXD1496 *AXD1497*
Service Manual	ARP3191	ARP3221	ARP3219	ARP3248	ARP3241 *ARP3305*	ARP3250
Owner's Manual	ARD1055	ARE1386	ARE1385	ARE1385	ARD1055 *ARD1059*	ARE1386

Video Card PDA-5003 (AWV2097) and PDA-5004 (AWV2098)
****Will need Torx Driver #T10H to remove***
*****For panels with narrow margin.***

4th generation 43" PLASMA
Quick Reference Chart

	PDP434CMX	PDP4304 *PDP4314*	PRO810HD	PRO810HD/1	PDP-434CMX/1	PDP4304/1 *PDP4314/1*
Service Panel Assy	AWU1094 AWU1109	AWU1109	☚	AWU1115	☚	☚
Scan IC	SN755864APZP	☚	☚	SN755866PZP	☚	☚
Power Supply Module	AXY1083	☚	☚	☚	☚	☚
Digital Video Assy	AWV2100 or 84***	AWV2100	☚	AWV2169	☚	☚
Y Drive Assy	AWV2022, 66	☚	☚	AWV2078	☚	☚
X Drive Assy.	AWZ6840	☚	☚	AWZ6865	☚	☚
AV I/O Assy	AWZ6894	AWZ6967 *AWZ6971*	AWZ6962	☚	AWZ6894	AWZ6967 *AWZ6971*
Audio Amp Assy	AWZ6848	☚	☚	☚	☚	☚
RGB Assy	AWZ6960	AWZ6961	☚	AWZ6993	AWZ6992	AWZ6993
FAN Motor	AXM1044	☚	☚	☚	☚	☚
Panel Sensor Assy.	AWZ6795	☚	☚	AWZ6872	☚	☚
LED OPT Assy	AWZ6957	AWZ6966	☚	☚	AWZ6957	AWZ6966
Side/Front Key Assy	AWZ6852	AWZ6970	AWZ6852	☚	☚	AWZ6970
Key Control Assy	AWZ6853	AWZ6969	AWZ6965	☚	AWZ6981	AWZ6969
IR Receive Assy	AWZ6855	☚	☚	☚	☚	☚
Comm Slot Assy	AWZ6849	AWZ6968	AWZ6963	☚	AWZ6849	AWZ6968
Comm Slot I/F	AWZ6850	AWZ6964	☚	☚	AWZ6980	AWZ6964
Video Card	AWV2097* AWV2098*	AWV2159**	AWV2158**	☚	AWV2097* AWV2098*	AWV2159**
Video Slot I/F Assy	AWZ6851	☚	☚	☚	☚	☚
Front Case Assy	AMB2790	AMB2846 *AMB2847*	AMB2845	☚	AMB2790	AMB2846 *AMB2847*
Hex Hole Bolt	☚	☚	☚	☚	☚	☚
AC cord	☚	☚	☚	☚	☚	☚
Protect Panel Assy	AMR3345	☚	☚	☚	☚	☚
Frame L	N/A	N/A	ANB1876	☚	N/A	N/A
Frame R	N/A	N/A	ANB1877	☚	N/A	N/A
Frame U	N/A	N/A	ANB1875	☚	N/A	N/A
Frame D	N/A	N/A	ANB1876	☚	N/A	N/A
Display Stand	AMR3264	N/A	N/A	N/A	AMR3264	N/A
Remote Control	AXD1486	AXD1496 *AXD1497*	AXD1496	☚	AXD1486	AXD1496 *AXD1497*
Service Manual	ARP3198	ARP3221	ARP3219	ARP3248	ARP3241	ARP3250
Owner's Manual	ARD1055	ARE1386	ARE1385	ARE1385	ARD1055	ARE1386

Video Card PDA-5003 (AWV2097) and PDA-5004 (AWV2098)
****Will need Torx Driver #T10H to remove***
*****For panels with narrow margin.***

Search Results for pdp434p

Tech Tips

Symptom: HDMI SETTING INSTRUCTIONS:
Cure: To view/change HDMI setting, unit must be on input 1 or 3. Press Home Menu, select Option, press Enter, select HDMI Input, press Enter, select Setting, press Enter, select Enable or Disable, press Enter. The little dot will show next to which ever is activated.
Models Covered: PDP4340HD, PDP434PU, PDP5040HD, PDP504PU
Tip Date: June 24 2005
The Tech Name: Tony Perkins

Symptom: Power down with 3 red blinks. Scan board Vh to buss bar shorted.
Cure: Replace thyristor KU10N16.
Models Covered: PDP4304, PDP4314, PDP434CMX, PDP434PU, PDP5014, PDP504CMX, PDP504PU, PDP50O4, PRO1010HD, PRO434PU, PRO504PU, PRO810HD
Tip Date: June 10 2005
The Tech Name: Bob Shoemaker

Symptom: REMOVAL OF BLUE SEALANT SURROUNDING SCAN ICs
Cure: USE FLUX REMOVER (Techspray Gen. 3 Flux Remover #1631-16S or similar) AND NYLON TOOTH BRUSH. DOWSE THE IC WITH THE SOLVENT AND USE THE TOOTHBRUSH TO REMOVE IT FROM THE LEADS OF THE IC. BE CAREFUL NOT TO HIT OR DAMAGE NEARBY CHIP COMPONENTS.
Models Covered: PDP434, PDP434PU, PDP504, PDP504PU
Tip Date: December 10 2004
The Tech Name: Tony Perkins

Symptom: No video when using input #1
Cure: Check menu for HDMI setting for input #1. It's probably enabled. Unit has dedicated HDMI inputs for inputs 1&3. If HDMI is enabled for either input, the others (composite, S & component) are disabled.
Models Covered: PDP434, PDP434PU, PDP504, PDP504PU
Tip Date: December 03 2004
The Tech Name: Tony Perkins

Symptom: After power up, unit had no display and power indicator (green LED) blinked three times in succession repeatedly. Checked & verified standby 3.3V, then replaced both digital video and panel IF boards, but there was no difference.
Cure: Checked "Relay" line on conn. P2 in PS and seen it rise to 3.3V for a few seconds, then drop down to OV. Hit RL101 (Power relay) with a screwdriver a few times and pressed power switch again. The unit powered up!! Replaced PS board, (AXY1068).
Models Covered: PDP4340HD, PDP434PU
Tip Date: November 05 2004
The Tech Name: Tony Perkins

Symptom: After a short time SD04 temp warning appears. Temp reading is 208.
Cure: Check for reversed B+ and ground wires on J109 going to temp sensor.
Models Covered: PDP434PU, PDP504PU
Tip Date: September 24 2004
The Tech Name: Bob Shoemaker

Symptom: Power down and RED LED blinks 2x.
Cure: Found defective Y-Drive Assy.
Models Covered: PDP4340HD, PDP434PU, PDP5040HD, PDP504PU, PRO1110HD, PRO434PU, PRO504PU, PRO910HD
Tip Date: May 05 2004
The Tech Name: Alan Sasaki

Symptom: INTERMITTENTLY LOCKS UP, BLACK RASTER, NO OSD.
Cure: FOUND DEFECTIVE PANEL IF BOARD (AWZ6786).
Models Covered: PDP434PU, PDP504PU, PRO434PU, PRO504PU
Tip Date: April 29 2004
The Tech Name: Alan Sasaki

Symptom: Unit does not respond to remote control.
Cure: Unit is probably in RS232 mode (serial connection). Put unit in standby mode. Quickly press "menu" then "power" to bring up the menu to set the communication format. Change to "SR+" to enable remote controle or "232C" for serial connection. Another method is to send the [BR0] command via RS232. See training guide page 28 for more information.
Models Covered: PDP4330HD, PDP434PU, PDP5040HD, PDP504PU, PRO1110HD, PRO910HD
Tip Date: January 21 2004
The Tech Name: Jeff Andrews

Symptom: Displays "out of range".
Cure: This model requires an optional video card in order to display anything other than computor monitor video resolutions, even if using RGB.
Models Covered: PDP434CMX, PDP504CMX
Tip Date: March 14 2005
The Tech Name: Jeff Andrews

3rd generation 50" PLASMA
Quick Reference Chart

	PDP-503CMX *PRO1000HD*	PRO1000HDI	PDP-503PU
Power Supply Module	(1,2) AXY1053, 55 or 59 (7)AXX1064 (8541-35690) *(7) must check*	AXY1059 (7) AXX1064, must check	(1,2) AXY1053, 55 or 59 (7) AXX1064 (2431-12680)
(3) New Scan IC S/N	9991	ALL	3051
Service Panel Assy	(2,3) AWU1068 (8) AWU1110	AWU1068 (8) AWU1110	(2,3,9) AWU1068 (8,9) AWU1110
Digital Video Assy	(3) AWV1903 or 70,79	AWV2072	(3) AWV1903 or 70,79 (9)AWV2029
Y Drive Assy	(4) AWZ6645 or 6745	AWV6745	(4) AWZ6645, 6707 OR 46
X Drive Assy.	(4) AWV1901 or 84	AWV1984	(4) AWV1901 or 84
(ADR)Resonance Assy	(5, 6) AWZ6630, 91 or 6750	AWZ6750	(6) AWZ6691or 6750
Sub Address A Assy	(5) AWZ6646 or 89	AWZ6689	AWZ6689
Sub Address B Assy	(5) AWZ6647 or 90	AWZ6690	AWZ6690
V Mid Clamp Assy	(1) AWV1934	N/A	(1) AWV1934
RGB Assy	AWZ6632 AWZ6744 (after # 10891)	AWZ6744	N/A
I/O Assy	AWZ6631	☚	N/A
MR Interface Assy	N/A	N/A	AWZ6699* (1621)
Audio Amp Assy	N/A	N/A	AWZ6687
MX Audio Assy	AWZ6644	☚	N/A
FAN Motor	AXM1040	☚	N/A
SP Out R Assy	AWZ6636, 6706	AWZ6706	N/A
SP Out L Assy	AWZ6635, 6705	AWZ6705	N/A
(MX) LED Assy	AWZ6642	☚	AWZ6655
Control Assy	AWZ6633	☚	N/A
IR Assy	AWZ6643	☚	AWZ6658
(Side/Front) Key Assy	AWZ6637	☚	AWZ6656
Key Connector Assy	AWZ6638, 6695	AWZ6695	AWZ6657
Thermal Sensor Assy	AWZ6639, 96	AWZ6696	AWZ6660
Video Card	AWV1906, *07***	AWV2064	N/A
Slot Connector Assy	AWZ6634	☚	N/A
Front Case Assy	AMB2698	AMB2805	AMB2722
AC cord	ADG1178, 1208	ADG1208	ADG1178, 1208
Protect Panel Assy	AMR3266, 3304	AMR3304	AMR3304
Display Stand	AMR3264, *N/A*	N/A	PDK-TS01
Remote Control	AXD1459, *66*	AXD1459	RRMCG1679CESA
System Cable (PDP-R03U)	N/A	N/A	QCNW-6117CEZZ
Power Cord (PDP-R03U)	N/A	N/A	QACCDA007WJPZ
Service Manual	ARP3093/*3101* & 3150	ARP3150/87	ARP3107 & 3141
Owner's Manual	ARD1042, 52/*ARB1544*	ARB1560	TINS-7552CEZZ

(1) See bulletin SI-D02012. Vmid moved to supply. If replacing AXY1053 with AXY1055 or 59, use exsisting Vmid.

(2) See bulletin SI-D03016A & 03026. AXY1059 replaces all, but must adjust if replacing old supply. Also adjust if panel replaced.

(3) See bulletin SI-D03025C. Use existing Dvid. Must use new with service panel. Scan Ics changed, SN755860PJ to SN755864APZP.

(4) See bulletin SI-D03041A. Use existing X or Y. If old to new must adjust.

(5) See bulletin SI-D03003. Use existing Addr. Reso & Sub Addr. If old to new, replace both.

(6) See bulletin SI-D03033. Improved caps and added insulator.

(7) See bulletin SI-D04048A, SI-PG04007. Mandatory upgrade (serial range where needed). Orange dot by serial # indicates already done. AXX1064 is AXY1059-H. AXY1059-A thru G need replacing.

(8) See bulletin SP-D04014. Must adjust Vofs when using AWU1110.

(9) If 1st number of serial is 2, special panel used. If replacing panel, also replace digital video.

** See bulletin SI-D03004. Old part# was AWZ6654. Will need (2) screws PMZ26P080FZK for new board.*

*** Will need Torx Driver #T10H to remove.*

ARP3162 has AWV1907 schematic.

3rd generation 43" PLASMA
Quick Reference Chart

	PDP-433CMX *PRO800HD*	PDP-4300	PRO800HDI	PDP-433PU
Power Supply Module	**(2) AXY1056 or (7) 59 (7)AXX1064 (2201-15940)** *(7) must check*	**(7) AXY1059 ☚ (0-3480)**	**(7) AXY1059 ☚ must check**	**(2) AXY1056 or (7) 59 ☚ (2761-10130)**
(3) New Scan IC S/N	**5011**	**ALL**	**ALL**	**3811**
Service Panel Assy	**(2,3) AWU1069**	**AWU1069**	**AWU1069**	**(2,3) AWU1069**
Digital Video Assy	**(3) AWV1941, 80 or 71**	**AWV1971**	**AWV2071**	**(3) AWV1929, 41, 80 or 71**
Y Drive Assy	**(4) AWZ6683 or 6748**	**AWZ6748**	**☚**	**(4) AWZ6683, 6708 or 49**
X Drive Assy.	**(4) AWV1930 or 85**	**AWV1985**	**☚**	**(4) AWV1930 or 85**
(ADR)Resonance Assy	**(6) AWZ6682 or 6751**	**AWZ6751**	**☚**	**(6) AWZ6682 or 6751**
Sub Address A Assy	**AWZ6692**	**AWZ6692**	**☚**	**☚**
Sub Address B Assy	**AWZ6693**	**AWZ6693**	**☚**	**☚**
RGB Assy	**AWZ6697 AWZ6744 (after # 4721)**	**AWZ6744**	**AWZ6837**	**N/A**
I/O Assy	**AWZ6631**	**AWZ6631**	**AWZ6801**	**N/A**
MR Interface Assy	**N/A**	**N/A**	**N/A**	**AWZ6699* (1637)**
Audio Amp Assy	**N/A**	**N/A**	**N/A**	**AWZ6687**
MX Audio Assy	**AWZ6644**	**AWZ6644**	**☚**	**N/A**
FAN Motor	**AXM1040**	**AXM1040**	**☚**	**N/A**
Thermal Sensor Assy	**AWZ6639, 96**	**AWZ6696**	**☚**	**AWZ6660**
(MX) LED Assy	**AWZ6642**	**AWZ6642**	**☚**	**AWZ6655**
Control Assy	**AWZ6633**	**AWZ6633**	**☚**	**N/A**
IR Assy	**AWZ6643**	**AWZ6643**	**☚**	**AWZ6658**
(Side/Front) Key Assy	**AWZ6637**	**AWZ6637**	**☚**	**AWZ6656**
Key Connector Assy	**AWZ6695**	**AWZ6695**	**☚**	**AWZ6657**
Video Card	**AWV1906/***07***	**AWV1907**	**AWV2064**	**N/A**
Slot Connector Assy	**AWZ6634**	**AWZ6634**	**☚**	**N/A**
Front Case Assy	**AMB2712**	**AMB2762**	**AMB2809**	**AMB2725**
Hex Hole Bolt	**SMZ80H400FZB**	**N/A**	**N/A**	**N/A**
AC cord	**ADG1178**	**☚**	**ADG1208**	**☚**
Protect Panel Assy	**AMR3303**	**AMR3303**	**☚**	**☚**
Display Stand	**AMR3264**	**N/A**	**☚**	**PDK-TS01**
Remote Control	**AXD1459/***66*	**AXD1466**	**AXD1459**	**RRMCG1679CESA**
System Cable (PDP-R03U)	**N/A**	**N/A**	**N/A**	**QCNW-6117CEZZ**
Power Cord (PDP-R03U)	**N/A**	**N/A**	**N/A**	**QACCDA007WJPZ**
Service Manual	**ARP3123/***3127* **& 3155**	**ARP3155/62*** **	**ARP3186**	**ARP3111 & 3143**
Owner's Manual	**ARD1049, 52/**ARB*1548*	**ARB1551**	**ARB1560**	**TINS-7552CEZZ**

(2) See bulletin SI-D03016A & 03026. AXY1059 replaces all, but must adjust if replacing old supply. Also adjust if panel replaced.

(3) See bulletin SI-D03025C. Use existing Dvid. Must use new with service panel. Scan Ics changed, SN755860PJ to SN755864APZP.

(4) See bulletin SI-D03041A. Use existing X or Y. If old to new must adjust.

(5) See bulletin SI-D03003. Use existing Addr. Reso & Sub Addr. If old to new, replace both.

(6) See bulletin SI-D03033. Improved caps and added insulator.

(7) See bulletin SI-D04048A, SI-PG04007. Mandatory upgrade (serial range where needed). Orange dot by serial # indicates already done. AXX1064 is AXY1059-H. AXY1059-A thru G need replacing.

** See bulletin SI-D03004. Old part# was AWZ6654. Will need (2) screws PMZ26P080FZK for new board.*

*** AWV1907 for PRO & 4300. Will need Torx Driver #T10H to remove from PRO.*

****ARP3162 has AWV1907 schematic.*

Pioneer

SERVICE INFORMATION

Date: May 26, 2003 **No.:** **SI-D02012-A** **(1/2)**

MODEL No.	*	SER.No.	S/M No.	PG
PDP-503CMX/LUCBO	A	0005536-	ARP3093	
PDP-503MXE/YVLDK	A	0004871-	ARP3093	
PDP-503PE/WYVIO6	B	0002291-	ARP3107	
PDP-503PG/TLDPKBRO	B	ALL	ARP3117	
PDP-503PU/KUC	B	ALL	ARP3107	
PDP-433PE/WYVIO6	C	ALL	ARP3111	
PDP-433PU/KUC	C	ALL	ARP3111	
PDU-50WX2/TUCYV	D	0000071-	ARP3114	

	#	CHANGE
DETAIL	1	Change of parts and deletion of ASSY.
REASON	1	Production convenience

Please dispose of the previous Service Information, **SI-D02012** issued on Jan.31, 2002

Ref *	#	CURRENT SYMBOL/DESCRIPTION	PARTS PART NUMBER	CODE	NEW PART NUMBER	PARTS SYMBOL/DESCRIPTION
AB	1	SW power supply module	AXY1053	1	AXY1055	SW power supply module
C	1	SW power supply module	AXY1053	1	AXY1056	SW power supply module
AB	1	V MID CLAMP ASS'Y	AWV1934	-	deleted	
C	1	V MID CLAMP ASS'Y	AWV1934	-	deleted	
A	1	J0118	ADX2754	-	deleted	
A	1	J0119	ADX2755	-	deleted	
B	1	J0120	ADX2752	-	deleted	
B	1	J0121	ADX2759	-	deleted	
C	1	J0120	ADX2749	-	deleted	
C	1	J0121	ADX2750	-	deleted	
A	1		added	-	ADX2761	J0118
B	1		added	-	ADX2761	J0120
C	1		added	-	ADX2763	J0120
D	1	J0120	ADX2760	2	ADX2761	J0120

-- Please see the following page --

PIONEER CORPORATION
K.MATSUMURA ,MANAGER DP
Technical Service Support Group Support Division

NOTE:PARTS CODE
1;Changeable from old to new.
2:Not Interchangeable an all.
3:Interchangeable in both ways
5:Do not use old parts

Memo: AA-D3798 SY66
Classify:

Pioneer

SERVICE INFORMATION

Date: Dec.2, 2004 **No.:** **SI-D03016-C** **(1/2)**

MODEL No.	*	SER.No.	S/M No.	PG
PDP-503CMX/LUCB	A	0008541-	ARP3093	
PDP-503MXE/YVLDK	A	0005521-	ARP3093	
PDP-503PE/WYVI6	A	0002681-	ARP3107	
PDP-503PU/KUC	A	0002431-	ARP3107	
PDU-50WX2/TUCYV	A	0000071-	ARP3114	
PDP-503PG/TLDPKBR	A	0001341-	ARP3117	
PDP-433CMX/LUCBW	B	0002201-	ARP3123	
PDP-433MXE/YVLDK	B	0001461-	ARP3123	
PDP-433PE/WYVI6	B	0001451-	ARP3111	
PDP-433PU/KUC	B	0002761-	ARP3111	
PDU-43WX2/TUCYV	B	ALL		
PDP-433PG/TLDPKBR	B	0001271-	ARP3118	

	#	CHANGE
DETAIL	1	Change Power Supply ASSY

REASON 1 To use for both of 43 inches model and 50 inches model.

----- Please see the back of this page -----

Please dispose of the previous Service Information, **SI-D03016-B** issued on Jun.12, 2003.

Note 1 : In the old Power Supply ASSYs, when replacing to a new part from AXY1051 or AXY1053, one connector (CN901) on the Power Supply ASSY is not connected any cables but it is normal.

Note 2 : When replacing to a new Power Supply ASSY **(AXX1064)** from an old Power Supply ASSY (AXY1051, AXY1053, AXY1055, AXY1056), VSUS readjustment is required.
(Because this adjustment is related to panel life time and dark cells, please perform this adjustment completely.)

Note 3 : There is no compatibility from new Power Supply Assy to old Power Supply ASSY.

Note 4 : AXY1059 was changed to AXX1064 with SI-D04048-G.

Ref *	#	CURRENT SYMBOL/DESCRIPTION	PARTS PART NUMBER	CO DE	NEW PART NUMBER	PARTS SYMBOL/DESCRIPTION
A	1	Power Supply ASSY	AXY1051	1	AXY1059	Power Supply ASSY
A	1	Power Supply ASSY	AXY1053	1	AXY1059	Power Supply ASSY
A	1	Power Supply ASSY	AXY1055	1	AXY1059	Power Supply ASSY
B	1	Power Supply ASSY	AXY1056	1	AXY1059	Power Supply ASSY

PIONEER CORPORATION
K.MATSUMURA ,MANAGER
DP
Technical Support Group
Service Support Division

NOTE:PARTS CODE
1;Changeable from old to new.
2:Not Interchangeable an all.
3:Interchangeable in both ways
5:Do not use old parts

Memo: AA-D4282 D4958
AA-D4361
AA-D4726

Classify: SY61

Part Number of old /new SW Power Supply Module **(2/2)**

	Old Part Number	New Part Number
50 inches	AXY1051, AXY1053, AXY1055	AXX1064
43 inches	AXY1056	AXX1064

Please check the part number of the original power supply ASSY before replacing it. If replacing to a new part from the old part, perform the following VSUS readjustment after replacement.

If the unit is consumer model (503PE/PU/ PG, 433PE/PU/PG), please refer to "1: How to re-adjust VSUS for consumer model"

If the unit is industrial model (503CMX/MXE, 433CMX/MXE), please refer to "2: How to re-adjust VSUS for industrial model

1: How to re-adjust VSUS for consumer model
(If the unit is 43 inches, please refer to the following note also.)

1. Go to service factory mode and then write down the VSUS data of the unit in service factory mod
(The VSUS data is on 12/13 page or 17/17 page of the service factory mode)

2. Look for new VSUS data from an original VSUS data using the following conversion table of the VSUS data.

3. Set the new VSUS data at "VSUS ADJ" in service factory mode
(By using volume up/down keys on remote, you are able to change the value of VSUS dat

NOTE: If the unit is 43 inch model, write down value of VSUS data by following procedure;
1 Confirm "MONITOR VERSION" in page 1 of service factory mode.
2. i) If the last two digit number of the version is 17 or over,
-> Write down VSUS data (It is not necessary to check panel temperature)
ii) If the last two digit number of the version is 16 or under,
-> Write down VSUS data while "CENSER TEMP" is 25 to 30 .
(CENSER TEMP is located in page 2 of service factory mode)

2: How to re-adjust VSUS for industrial model

1. Go to service factory mode and then write down the VSUS data of the unit in service factory mod
(The VSUS data is on REF-DIG in service factory mode.)

2. Look for new VSUS data from an original VSUS data using the following conversion table of the VSUS data.

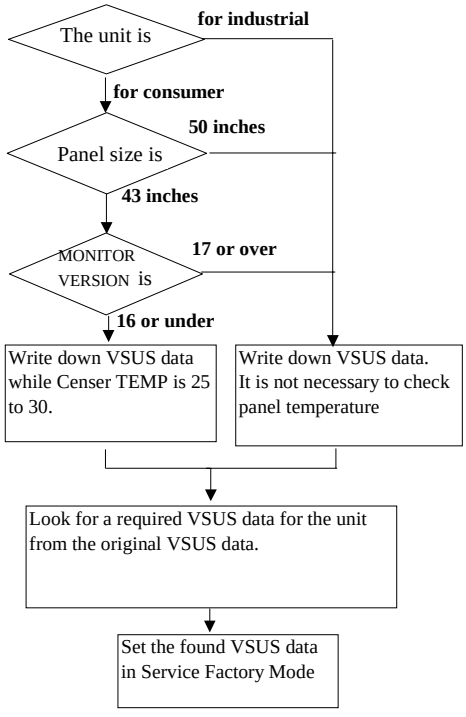
3. Set the new VSUS data at "V-SUS" on REF-DIG in service factory mode
(By using left " ◀ " and right " ▶ " keys on the remote, you are able to change the value of VSUS data.)

<VSUS data Conversion Table>

New data	Old data	
	433 inch	503 inch
VSUS000	None	None
VSUS004	None	None
VSUS009	None	None
VSUS013	None	None
VSUS017	None	None
VSUS021	VSUS000	None
VSUS026	VSUS005	None
VSUS030	VSUS010	None
VSUS034	VSUS015	None
VSUS038	VSUS020	None
VSUS043	VSUS026	None
VSUS047	VSUS031	None
VSUS051	VSUS036	None
VSUS055	VSUS041	None
VSUS060	VSUS046	None
VSUS064	VSUS051	VSUS000
VSUS068	VSUS056	VSUS006
VSUS073	VSUS061	VSUS013
VSUS077	VSUS067	VSUS019
VSUS081	VSUS072	VSUS026
VSUS085	VSUS077	VSUS032
VSUS090	VSUS082	VSUS038
VSUS094	VSUS087	VSUS045
VSUS098	VSUS092	VSUS051
VSUS102	VSUS097	VSUS058
VSUS107	VSUS102	VSUS064
VSUS111	VSUS108	VSUS070
VSUS115	VSUS113	VSUS077
VSUS119	VSUS118	VSUS083
VSUS124	VSUS123	VSUS090
VSUS128	VSUS128	VSUS096

New data	Old data	
	433 inch	503 inch
VSUS132	VSUS133	VSUS102
VSUS136	VSUS138	VSUS109
VSUS141	VSUS143	VSUS115
VSUS145	VSUS148	VSUS122
VSUS149	VSUS153	VSUS128
VSUS153	VSUS158	VSUS134
VSUS158	VSUS164	VSUS141
VSUS162	VSUS169	VSUS147
VSUS166	VSUS174	VSUS153
VSUS170	VSUS179	VSUS160
VSUS175	VSUS184	VSUS166
VSUS179	VSUS189	VSUS172
VSUS183	VSUS194	VSUS179
VSUS187	VSUS199	VSUS185
VSUS192	VSUS204	VSUS192
VSUS196	VSUS209	VSUS198
VSUS200	VSUS214	VSUS204
VSUS204	VSUS219	VSUS211
VSUS208	VSUS225	VSUS217
VSUS213	VSUS230	VSUS223
VSUS217	VSUS235	VSUS230
VSUS221	VSUS240	VSUS236
VSUS225	VSUS245	VSUS242
VSUS230	VSUS250	VSUS249
VSUS234	VSUS255	VSUS255
VSUS238	None	None
VSUS242	None	None
VSUS247	None	None
VSUS251	None	None
VSUS255	None	None

<VSUS data readjustment flow chart>


The unit is
for industrial
for consumer
Panel size is
50 inches
43 inches
MONITOR VERSION is
17 or over
16 or under
Write down VSUS data while Censer TEMP is 25 to 30.
Write down VSUS data. It is not necessary to check panel temperature
Look for a required VSUS data for the unit from the original VSUS data.
Set the found VSUS data in Service Factory Mode

SERVICE INFORMATION

Date: Jan.11, 2005 **No.:** **SI-D04048A-G** **(1/3)**

MODEL No. ***** **SER.No.** **S/M No.** **PG**

See to following page

	#	DETAIL
SYMPTOM	1	PDP does not power on.
CAUSE	1	FET (Q125, Q127) are shorted because soldering of chip resistors (R213, R222, R350, R351) and chip capacitors are defective in SW Power Supply Assy.
SERVICE REMEDY	1	Use new Power Supply Assy (AXX1064) for repair, do not use old Power Supply Assy (AXY1059). Put a circular orange sticker (8 phi) on the following location after replacement. * Consumer Model : Near the serial number of rear case and the bottom of front case (in two places) * Industrial Model : Only near the serial number of rear case
FACTORY COUNTER -MEASURE	1	Same as the Service Remedy (This modification is applied for the unit which is produced in mid-February and after.)

----- Please dispose of the previous Service Information SI-D04048-G, issued on Feb.19, 2004. -----

Ref *	#	CURRENT SYMBOL/DESCRIPTION	PARTS PART NUMBER	CODE	NEW PART NUMBER	PARTS SYMBOL/DESCRIPTION
A	1	POWER SUPPLY Assy	AXY1059	5	AXX1064	POWER SUPPLY Assy
A	1		Added	-	AAX3099	sticker

PIONEER CORPORATION

K.MATSUMURA ,MANAGER
DP
Technical Support Group
Service Support Division

NOTE:PARTS CODE
1:Changeable from old to new.
2:Not Interchangeable an all.
3:Interchangeable in both ways
5:Do not use old parts

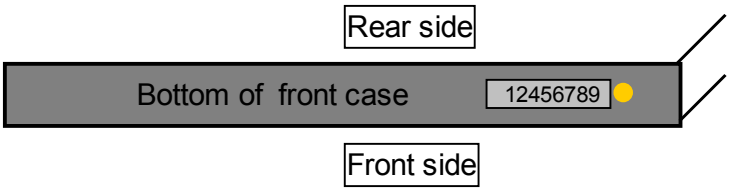
Memo:

Classify:

SY61

Model No.	*	Serial No.	S/M No.
PDP-503CMX/LUCB	A	008541 - 035690	ARP3093
PDP-503MXE/YVLDK	A	005521 - 014170	ARP3093
PDP-503PE/WYVI6	A	002681 - 010130	ARP3107
PDP-503PU/KUC	A	002431 - 012680	ARP3107
PDP-503PG/TLDPKBR	A	001341 - 004960	ARP3117
PDP-433CMX/LUCBW	A	002201 - 015940	ARP3123
PDP-433MXE/YVLDK	A	001461 - 008920	ARP3123
PDP-433PE/WYVI6	A	001451 - 002000	ARP3111
PDP-433PU/KUC	A	002761 - 010130	ARP3111
PDP-433PG/TLDPKBR	A	001271 - 004820	ARP3118
PDP-4300/KUC/CA	A	000001 - 003480	ARP3162
PRO-800HD/LUXC/CA	A	See the following tables	ARP3127
PRO-1000HD/LUXC/CA	A		ARP3101
PRO-800HDI/LUCXC	A		ARP3186
PRO-1000HDI/LUCXC	A		ARP3187

* The above range of units have the AXY1059 that needs replacing.
However, if any of the above listed models have an orange round sticker (8 mm dia.) near the Serial Number of the Plasma Panel (refer to the following figure), they already have the new power supply AXX1064 installed at the factory.



PRO-800HD

	AXY1056	AXY1056 or AXY1059	AXY1059	AXX1064
Serial number	000001-000706	000707-001787	001788-003901	NONE
Action	Do not need to replace Power Supply	Need to check Power Supply before replacing it	Need to replacing Power Supply Assy	

PRO-1000HD

	AXY1053 or AXY1055	AXY1055 or AXY1059	AXY1059	AXX1064
Serial number	000001-002752	002753-003295	003296 and higher	NONE
Action	Do not need to replace Power Supply	Need to check Power Supply before replacing it	Need to replacing Power Supply Assy	

PRO-800HDI *

	AXY1056 or AXY1059	AXY1059 (AXY1059G)	AXY1059 or AXX1064	AXX1064 (AXY1059H)
Serial number	NONE	000001 to 001350	001572 to 001652, 001792 to 001800	001351 to 001571 001653 to 001791
Action		Need to replacing Power Supply Assy	Need to check Power Supply before replacing it	Do not need to replace Power Supply

PRO-1000HDI *

	AXY1055 or AXY1059	AXY1059 (AXY1059G)	AXY1059 or AXX1064	AXX1064 (AXY1059H)
Serial number	NONE	000001 to 002000 (Except 001955)	NONE	001955, 002001 and higher
Action		Need to replacing Power Supply Assy		Do not need to replace Power Supply

* If any PRO-800HDI or PRO-1000HDI has an Orange round sticker (8 mm dia.) near the Serial Number of the Plasma Panel, they already have the new power supply AXX1064 installed at the factory

** The PRO series do not have a serial number sticker or an orange sticker at the bottom of the front case.

Pioneer

SERVICE INFORMATION

Date: Sep.19, 2002 **No.:** **SI-D03026** **(1/4)**

MODEL No. ***** **SER.No.** **S/M No.** **PG**

See to following page

	#	CHANGE
DETAIL	1	Changes method of VSUS adjustment and SUSB adjustment after replacing a service panel. (Changes VSUS data to VSUS voltage)
REASON	1	To be able to perform the above adjustments even if using either a new power supply ASSY (common use for 43 inch and 50 inch) or an old one to a service panel.

-------- See full SI if replacing panel.-------

Ref *	#	CURRENT SYMBOL/DESCRIPTION	PARTS PART NUMBER	CO DE	NEW PART NUMBER	PARTS SYMBOL/DESCRIPTION

PIONEER CORPORATION

K.MATSUMURA ,MANAGER
DP
Technical Support Group
Service Support Division

NOTE:PARTS CODE
1;Changeable from old to new.
2:Not Interchangeable an all.
3:Interchangeable in both ways
5:Do not use old parts

Memo: SY66

Classify:

Pioneer

SERVICE INFORMATION

Date: Aug.22, 2003 **No.:** **SI-D03025D** **(1/3)**

MODEL No.	*	SER.No.	S/M No.	PG
PDP-503PE/WYVI6	A	0002751-	ARP3107	
PDP-503PG/TLDPKBR	A	0001101-	ARP3117	
PDP-503PU/KUC	A	0003051-	ARP3107	
PDP-503CMX/LUCB	A	0009991-	ARP3093	
PDP-503MXE-S/TA	A	0000601-	ARP3120	
PDP-503MXE/YVLDK	A	0005591-	ARP3093	
PDP-503PC/TAXQ	A	0000031-	ARP3134	
PDP-503PE/WYVI6XK	A	0003411-	ARP3107	
PDP-433PE/WYVI6	B	0001551-	ARP3111	
PDP-433PG/TLDPKBR	B	0001341-	ARP3118	
PDP-433PU/KUC	B	0003811-	ARP3111	
PDP-433CMX/LUCBW	B	0005011-	ARP3123	
PDP-433MXE/YVLDK	B	0002931-	ARP3123	
PDP-433PE/WYVI6XK	B	0005511-	ARP3111	

	#	CHANGE
DETAIL	1	Change of SCAN IC
	1	Change of DIGITAL VIDEO ASS'Y due to change of SCAN IC
	1	Change of Service Panel ASS'Y due to change of SCAN IC
REASON	1	Production convenience

---- Please see the following page ----

Please dispose of the previous Service Information, **SI-D03025C** issued on Jan.30, 2003.
(Changed points : Added 3 models information)

Ref *	#	CURRENT SYMBOL/DESCRIPTION	PARTS PART NUMBER	CO DE	NEW PART NUMBER	PARTS SYMBOL/DESCRIPTION
A	1	SCAN IC	SN755860PJ	2	SN755864APZP	SCAN IC
A	1	DIGITAL VIDEO ASS'Y	AWV1903	2	AWV1970	DIGITAL VIDEO ASS'Y
A	1	Service Panel ASS'Y 503	AWU1040	1	AWU1068	Service Panel ASS'Y 503
B	1	SCAN IC	SN755860PJ	2	SN755864APZP	SCAN IC
B	1	DIGITAL VIDEO ASS'Y	AWV1941	2	AWV1971	DIGITAL VIDEO ASS'Y
B	1	Service Panel ASS'Y 433	AWU1043	1	AWU1069	Service Panel ASS'Y 433

PIONEER CORPORATION
K.MATSUMURA ,MANAGER
DP
Technical Support Group
Service Support Division

NOTE:PARTS CODE
1;Changeable from old to new.
2:Not Interchangeable an all.
3:Interchangeable in both ways
5:Do not use old parts

Memo:

Classify: AA-D4416 D4417 D4427 D4428 D4495 D4497 D4572 D4598 SY61

There is No compatibility between the old part and the new part individually. Please follow the below instruction when repairing the product with old parts.

- Scan IC replacement :

Both old (SN755860PJ) and new scan IC (SN755864APZP) are available as part. Replace with the appropriate scan IC according to the part number of the actual Scan IC on the repairing unit.

- Service Panel Assy :

When the new Service panel ASSY (AWU1068/AWU1069) is installed instead of the old service panel ASSY (AWU1040/AWU1043), it is essential to perform either of the following measure together with the replacement of the panel.

1) Replace the D.Video assy from old part (AWV1903/AWV1929/AWV1941) to new part (AWV1970/AWV1971)

2) Modify the scan sequence program of the D.Video assy. Detail of this method is described in the Document **SK-D03002**.

- D.Video Assy :

Both old (AWV1903/AWV1929/AWV1941) and new (AWV1970/AWV1971) D.Video assys are available as part. Replace with the appropriate D.Video assy according to the type of the Panel assy installed on the actual repairing unit. Alternatively confirm the Part number and the labelling on the D.Video assy as described in the document **SK-D03002**.

Note

* New scan IC and old scan IC are physically different.
* When Old Panel assy is used together with the new D.Video assy, abnormal whitish light emission will appear on the screen. In this case, turn off the power and confirm if the correct pair of D.Video assy and Panel assy is used. This whitish abnormal screen is caused due to un-match of scan sequence and it restores when correct pair of D.Video assy and Panel assy is used.
* Regarding Digital Video Assy for 503 series, AWV1970 and AWV1979 are interchangeable in both ways.

Parts List

MODEL No.	Serial No.	SCAN IC	Digital Video ASSY	Service Panel ASSY 503
PDP-503PE/WYVI6	0000001-0002750	SN755860PJ	AWV1903	AWU1040
	0002751-	SN755864APZP	AWV1970	AWU1068
PDP-503PG/TLDPKBR	0000001-0001100	SN755860PJ	AWV1903	AWU1040
	0001101-	SN755864APZP	AWV1970	AWU1068
PDP-503PU/KUC	0000001-0003050	SN755860PJ	AWV1903	AWU1040
	0003051-	SN755864APZP	AWV1970	AWU1068
PDP-503CMX/LUCB	0000001-0009990	SN755860PJ	AWV1903	AWU1040
	0009991-	SN755864APZP	AWV1970	AWU1068
PDP-503MXE-S/TA	0000001-0000600	SN755860PJ	AWV1903	AWU1040
	0000601-	SN755864APZP	AWV1970	AWU1068
PDP-503MXE/YVLDK	0000001-0005590	SN755860PJ	AWV1903	AWU1040
	0005591-	SN755864APZP	AWV1970	AWU1068
PDP-503PC/TAXQ	0000001-0000030	SN755860PJ	AWV1903	AWU1040
	0000031-	SN755864APZP	AWV1970	AWU1068
PDP-503PE/WYVI6XK	0000001-0003410	SN755860PJ	AWV1903	AWU1040
	0003411-	SN755864APZP	AWV1970	AWU1068

MODEL No.	Serial No.	SCAN IC	Digital Video ASSY	Service Panel ASSY 433
PDP-433PE/WYVI6	0000001-0001550	SN755860PJ	AWV1929 AWV1941 AWV1980	AWU1043
	0001551-	SN755864APZP	AWV1971	AWU1069
PDP-433PG/TLDPKBR	0000001-0001340	SN755860PJ	AWV1929 AWV1941 AWV1980	AWU1043
	0001341-	SN755864APZP	AWV1971	AWU1069
PDP-433PU/KUC	0000001-0003810	SN755860PJ	AWV1929 AWV1941 AWV1980	AWU1043
	0003811-	SN755864APZP	AWV1971	AWU1069
PDP-433CMX/LUCBW	0000001-0005010	SN755860PJ	AWV1941 AWV1980	AWU1043
	0005011-	SN755864APZP	AWV1971	AWU1069
PDP-433MXE/YVLDK	0000001-0002930	SN755860PJ	AWV1941 AWV1980	AWU1043
	0002931-	SN755864APZP	AWV1971	AWU1069
PDP-433PE/WYVI6XK	0000001-0005510	SN755860PJ	AWV1929 AWV1941 AWV1980	AWU1043
	0005511-	SN755864APZP	AWV1971	AWU1069

Pioneer

SERVICE INFORMATION

Date: Sep.17, 2004 **No.:** **SPD04014** **(1/4)**

MODEL No.	*	SER.No.	S/M No.	PG
PDP-503CMX/LUCB	A		ARP3093	
			ARP3150	
PRO-1000HD/LUXC/CA	A		ARP3101	
PDP-503MXE-S/TA	A		ARP3120	
PDP-503MXE/YVLDK	A		ARP3093	
			ARP3150	
PDP-503PC/TAXQ	A		ARP3134	
PDP-503PE/WYVI6	A		ARP3107	
			ARP3141	
PDP-503PE/WYVI6XK	A		ARP3107	
			ARP3141	
PDP-503PG/TLDPKBR	A		ARP3117	
			ARP3141	
PDP-503PU/KUC	A		ARP3107	
			ARP3141	

	#	CHANGE
DETAIL	1	A new adjustment method to meet a new service panel

----------See complete bulletin if replacing panel.----------

REASON 1 Wide VOFS margin panels had been used for service,
and they had been only ten percent of the panel production quantity.
However all of new production service panels will be used for service,
so it is necessary to adjust VOFS.

* Part number of new service panel ASSY : AWU1110

----- Please see the following pages for the Replacement Procedure of Service Panel. -----

Ref *	#	CURRENT SYMBOL/DESCRIPTION	PARTS PART NUMBER	CO DE	NEW PART NUMBER	PARTS SYMBOL/DESCRIPTION
A	1	PDP service ASSY 503	AWU1040	3	AWU1110	PDP service ASSY 503
A	1	PDP service ASSY 503	AWU1068	3	AWU1110	PDP service ASSY 503

PIONEER CORPORATION
K.MATSUMURA ,MANAGER DP
Technical Support Group
Service Support Division

NOTE:PARTS CODE
1;Changeable from old to new.
2:Not Interchangeable an all.
3:Interchangeable in both ways
5:Do not use old parts

Memo: SY61

Classify:

Pioneer

SERVICE INFORMATION

Date: Apr.10, 2003 **No.:** **SI-D03041-A** **(1/2)**

MODEL No.	*	SER.No.	S/M No.	PG
PDP-503PE/WYVIO6	A	Please see the following page	ARP3107	
PDP-503PG/TLDPKBRO	A		ARP3117	
PDP-503PU/KUC	A		ARP3107	
PDP-503MXE/YVLDK	B		ARP3093	
PDP-503MXE-S/TA	B		ARP3120	
PDP-503CMX/LUCBO	B		ARP3093	
PDP-433PE/WYVIO6	C		ARP3111	
PDP-433PG/TLDPKBRO	C		ARP3118	
PDP-433PU/KUC	C		ARP3111	
PDP-433MXE/YVLDK	D		ARP3123	
PDP-433CMX/LUCBW	D		ARP3123	

	#	CHANGE
DETAIL	1	Created new X and Y Drive Assy
REASON	1	Changed the circuit to meet new Pulse Module, STK795-470

----- Please see the following page -----

Please dispose of the previous Service Information, **SI-D03041** issued on Feb.18, 2003.

Ref *	#	CURRENT SYMBOL/DESCRIPTION	PARTS PART NUMBER	CO DE	NEW PART NUMBER	PARTS SYMBOL/DESCRIPTION
AB	1	X DRIVE ASSY	AWV1901	1	AWV1984	X DRIVE ASSY
CD	1	X DRIVE ASSY	AWV1930	1	AWV1985	X DRIVE ASSY
A	1	Y DRIVE ASSY	AWZ6707	1	AWZ6746	Y DRIVE ASSY
B	1	Y DRIVE ASSY	AWZ6645	1	AWZ6745	Y DRIVE ASSY
C	1	Y DRIVE ASSY	AWZ6708	1	AWZ6749	Y DRIVE ASSY
D	1	Y DRIVE ASSY	AWZ6683	1	AWZ6748	Y DRIVE ASSY

PIONEER CORPORATION

K.MATSUMURA ,MANAGER
DP
Technical Support Group
Service Support Division

NOTE:PARTS CODE
1;Changeable from old to new.
2:Not Interchangeable an all.
3:Interchangeable in both ways
5:Do not use old parts

Memo: AA-D4754 SY66
AA-D4755

Classify:

[Serial No. of new DRIVE ASSY]

MODEL	X DRIVE ASSY	Y DRIVE ASSY
PDP-503PE/WYVIO6	0003001-	0003001-
PDP-503PG/TLDPKBRO	0001821-	0001821-
PDP-503PU/KUC	0004591-	0004591-
PDP-503MXE/YVLDK	0007611-	0007611-
PDP-503MXE-S/TA	0000631-	0000631-
PDP-503CMX/LUCBO	0013671-	0013671-
PDP-433PE/WYVIO6	0001691-	0001691-
PDP-433PG/TLDPKBRO	0001861-	0001991-
PDP-433PU/KUC	0004531-	0004531-
PDP-433MXE/YVLDK	0003671-	0003901-
PDP-433CMX/LUCBW	0006121-	0006811-

[Notice]

It is not necessary to replace both X DRIVE ASSY and Y DRIVE ASSY at the same time.

It is impossible to replace a new part with an old part.

It is possible to replace an old part with a new part.
In this case, it is necessary to reset value of X-SUS-B ADJ or Y-SUS-B ADJ
in service factory mode using the remote control unit provided with the plasma display.
(Regarding the operations of service factory mode, see the service manual.)

1) 503 series
When you replace the DRIVE ASSY of 503 series, add 2 steps to the current value of SUS-B ADJ that correspond to the part you replace.

(e.g.1) When you replace X DRIVE ASSY and the current value of X-SUS-B ADJ is "08" reset the value to "10".
In this case, it is not necessary to reset the value of Y-SUS-B ADJ.

(e.g.2) When you replace Y DRIVE ASSY and the current value of Y-SUS-B ADJ is "08" reset the value to "10".
In this case, it is nor necessary to reset the value of X-SUB-B ADJ.

2) 433 series
When you replace the DRIVE ASSY of 433 series, add 1 step to the current value of SUS-B ADJ that correspond to the part you replace.

(e.g.1) When you replace X DRIVE ASSY and the current value of X-SUS-B ADJ is "08" reset the value to "09".
In this case, it is not necessary to reset the value of Y-SUS-B ADJ.

(e.g.2) When you replace Y DRIVE ASSY and the current value of Y-SUS-B ADJ is "08" reset the value to "09".
In this case, it is not necessary to reset the value of X-SUS-B ADJ.

SERVICE INFORMATION

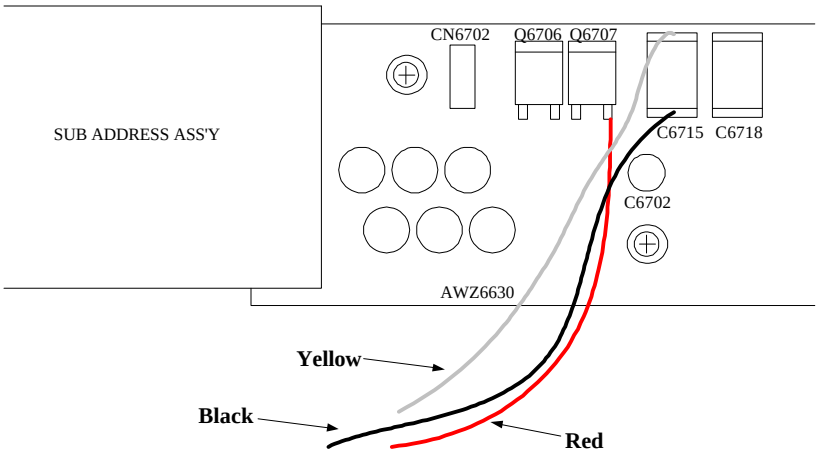
Date: Apr.17,2002 **No.:** **SI-D03003** **(1/1)**

MODEL No.	*	SER.No.	S/M No.	PG
PDP-503CMX/LUCBO	A	004017-	ARP3100	
PDP-503MXE/YVLDK	A	002631-	ARP3100	
PDP-503PE/WYVIO6	A	001511-	ARP3108	
PDP-503PG/TLDPKBRO	A	ALL	ARP3117	
PDP-503PU/KUC	A	ALL	ARP3108	
PDU-50WX2/TUCYV	A	000071-	ARP3115	

	#	CHANGE
DETAIL	1	Change of parts in ADR RESONANCE ASS'Y according to change of SUB ADDRESS A ASS'Y and SUB ADDRESS B ASS'Y.
REASON	1	To improve productivity.

There is no compatibility between old parts and new parts.
When you change old SUB ADDRESS A ASSY or SUB ADDRESS B ASSY to a new one (AWZ6689, AWZ6690), please replace ADR RESONANCE ASSY with a new one (AWZ6691) at the same time.
In case of this situation, please remove three cables (red, black, and yellow) by a soldering iron from the old ASSY (AWZ6630) and then re-solder them to the same location of replaced ASSY (AWZ6691).
When you replace old ADR RESONANCE ASSY with a new one, please do the same as the above condition.

Figure of cable location



Ref *	#	CURRENT SYMBOL/DESCRIPTION	PARTS PART NUMBER	CODE	NEW PART NUMBER	PARTS SYMBOL/DESCRIPTION
A	1	SUB ADDRESS A ASSY	AWZ6646	2	AWZ6689	SUB ADDRESS A ASSY
A	1	SUB ADDRESS B ASSY	AWZ6647	2	AWZ6690	SUB ADDRESS B ASSY
A	1	ADR RESONANCE ASSY	AWZ6630	2	AWZ6691	ADR RESONANCE ASSY

PIONEER CORPORATION

K.MATSUMURA ,MANAGER
DP
Technical Service **Support Group** **Support Division**

NOTE:PARTS CODE
1;Changeable from old to new.
2:Not Interchangeable an all.
3:Interchangeable in both ways
5:Do not use old parts

Memo: SPC56-238 SA71
AA-D3689

Classify:

Pioneer

SERVICE INFORMATION

Date: Nov.20, 2002 **No.:** **SI-D03033-G** **(1/5)**

MODEL No. ***** **SER.No.** **S/M No.** **PG**

See to following page

	#	DETAIL
SYMPTOM	1	The power goes off.
CAUSE	1	Short circuit of Capacitors (C6716 or C6718) in the address resonance ASSY.
SERVICE REMEDY	1	Please see the following.
FACTORY COUNTER -MEASURE	1	Same as the Service Remedy.

---------- Not common. See full SI if caps fail. ----------

Service Remedy

1-a "When you repair the PDP at your service bench"

Prepare an insulated tube and white silicon bonding.
Remove C6716 and C6718.
Set a new capacitor, ACE1162. Refer to the procedure of the next page.
Perform same things to both upper and lower Address Resonance Assy.

1-b "When you repair the PDP on site"

Replace both upper and lower Address Resonance Assy with new Assy

	Old	New
50 inch	AWZ6691	AWZ6750
43 inch	AWZ6682	AWZ6751

2 Put insulated sheet on both upper and lower panel chassis. Refer to the exploded views.
And furthermore, if the PDP you are fixing is an industrial model, put insulated sheet on RGB Base also.

3 Put a green sticker on the right side of serial number.

Ref *	#	CURRENT SYMBOL/DESCRIPTION	PARTS PART NUMBER	CO DE	NEW PART NUMBER	PARTS SYMBOL/DESCRIPTION
A	1	address resonance ASSY	AWZ6691	5	AWZ6750	address resonance ASSY
B	1	address resonance ASSY	AWZ6682	5	AWZ6751	address resonance ASSY
AB	1		Added	-	AMR3343	insulated sheet
AB	1	capacitor	ACE1159	5	ACE1162	capacitor

PIONEER CORPORATION

K.MATSUMURA ,MANAGER
DP
Technical Support Group
Service Support Division

NOTE:PARTS CODE
1:Changeable from old to new.
2:Not Interchangeable an all.
3:Interchangeable in both ways
5:Do not use old parts

Memo: AA-D4747 SY66
AA-D4749
AA-D4774

Classify:

Symptom: PANEL DISPLAYS "E06"
Cure: Refers to internal error on the panel. If removing & reapplying AC power doesn't resolve, check Panel PS for low voltages.
Models Covered: PDP4330HD, PDP433PU, PDP5030HD, PDP503PU
Tip Date: July 18 2005
The Tech Name: Tony Perkins

Symptom: Approx. 15 min after turning on, a white bar (1/4 high) across the bottom of the screen will appear and remain until the unit is turned off. It does not go into Power Down or Shut Down.
Cure: Check R6020 on the Scan A Ass'y. This is on the CLR line to IC6004.
Models Covered: PDP4300, PDP433CMX, PDP433PU, PDP503CMX, PDP503PU, PRO1000HD, PRO1000HDI, PRO800HD, PRO800HDI
Tip Date: January 26 2005
The Tech Name: Bruce Phillips

Symptom: Unit shuts down. Standby LED blinks.
Cure: Go to Pioneer ASC website, download bulletin SKD03001 for "Diagnostic Method". Note; scan IC diagnosis has errors.
Models Covered: PDP433, PDP433CMX, PDP433PU, PDP503, PDP503CMX, PDP503PU
Tip Date: September 22 2004
The Tech Name: Jeff Andrews

Symptom: Colored snow at edges and white in the center.
Cure: Vh is 0.5V. Replace Y drive.
Models Covered: PDP4300, PDP433CMX, PDP433PU, PDP503CMX, PDP503PU, PRO1000HD, PRO1000HDI, PRO800HD, PRO800HDI
Tip Date: April 05 2004
The Tech Name: Bob Shoemaker

Symptom: NEW SCAN IC'S ARE DIFFERENT THAN ORIGINAL. OK TO USE??
Cure: NO. ORIGINAL (SN755860PJ) ARE NOT COMPATIBLE WITH NEW IC (SN755864APZP).
Models Covered: PDP433CMX, PDP433PU, PDP503CMX, PDP503PU
Tip Date: March 25 2004
The Tech Name: Tony Perkins

Symptom: SHUT DOWN W/ 5 RED BLINKS. SCAN BD'S. & IC'S CHECK OK. NOW WHAT?
Cure: Discovered +15V line loaded down to +6.9V. Removed connector R24 on MR Interface Bd. and +15V line returned. Found shorted audio output IC (IC5002, LA4628) on Audio Amp Assy. Replaced and restored normal operation. {Tech. Note: 5 Red blinks is also a default PD indicator. Occurs when Micro. can't identify which circuit is causing problem.}
Models Covered: PDP433PU, PDP503PU
Tip Date: March 25 2004
The Tech Name: Tony Perkins

Symptom: No audio from any source.
Cure: Perform reset. Put unit in standby, hold down reset switch behind front door of media receiver, turn on power using remote control, release reset button.
Models Covered: PDP4330HD, PDP433PU, PDP5030HD, PDP503PU, PDPR03U
Tip Date: March 15 2004
The Tech Name: Bernie Shelton

Symptom: RED LED BLINKS 4X
Cure: FOUND POWER SUPPLY DEFECTIVE (R133 OPEN, Q127 SHORTED)
Models Covered: PDP433CMX, PDP433PU, PDP503CMX, PDP503PU
Tip Date: January 23 2004
The Tech Name: Alan Sasaki

Symptom: Picture has overlay of vertical bars and then PD with 7 blinks. (address).
Cure: All voltages and data check OK. Replace Dvid. Use same part # that's in unit.
Models Covered: PDP4300, PDP433CMX, PDP433PU, PDP503CMX, PDP503PU, PRO1000, PRO800
Tip Date: May 13 2003
The Tech Name: Bob Shoemaker

Symptom: Replaced defective panel and corresponding digital video board. When powered up, the display is all white. Display acts the same whether connected to the media receiver or not. Installed another digital video board and had same problem. What happened?
Cure: You forgot to forward the EEPROM (IC1204) from the original digital video board to the new digital video board. Problem was resolved.
Models Covered: PDP433PU, PDP503PU
Tip Date: May 06 2003
The Tech Name: Tony Perkins

Symptom: No picture, no display.
Cure: Found defective X-Drive Assy.
Models Covered: PDP4030HD, PDP4330HD, PDP433CMX, PDP433PU, PDP5030HD, PDP503CMX, PDP503PU,
PRO1000HD, PRO800HD
Tip Date: April 02 2003
The Tech Name: Alan Sasaki

Symptom: Unit shuts down. Red LED 5 blinks. By removing pin 5 of connector P2, normal shut down doesn't occur, however, now the green LED has a steady slow blink.
Cure: Found defective Digital Video Assy. ADROUT voltage missing from the Resonance Assy. By troubleshooting further found ADR-B, ADR-U and ADR-B signals and voltages missing from IC1701.
Models Covered: PDP433CMX, PDP433PU, PDP503CMX, PDP503PU, PRO1000HD, PRO800HD
Tip Date: March 21 2003
The Tech Name: Alan Sasaki

Symptom: Replaced Digital Video Bd. and now there is only a white image. Put in old board, original symptom came back, but the picture looks fine. What's the problem?
Cure: There are NEW and OLD style Plasma Panel Assy's and corresponding Digital Video Bds and they ARE NOT interchangable. You have a bad combination. New panel assys: (AWU1068 or AWU1069) Old panel assys: (AWU1040 or AWU1043) New Dig. Vid. bds: (AWV1970 or AWV1971) Old Dig. Vid. Bds: (AWV1903 or AWV21929 or AWV1941) – New Panel / New board. & Old Panel / Old board. See SI-D03025-C
Models Covered: PDP433CMX, PDP433PE, PDP433PU, PDP503CMX, PDP503PE, PDP503PU
Tip Date: February 04 2003
The Tech Name: Tony Perkins

Symptom: Power down, red LED flashes 2x.
Cure: One scan IC blown. Others OK. Replaced & flash in upper left corner of back. Replaced Y and still PD. Found 2nd IC now bad. Replaced & OK.
Models Covered: PDP433CMX, PDP433PU, PDP503CMX, PDP503PU
Tip Date: November 25 2002
The Tech Name: Bob Shoemaker

Symptom: Top and bottom of pix start to flash white with colored speckles. After a few mins, the problem spreads
towards the center of the picture until the whole picture is whited out with colored speckles.
Cure: Replace defective y-drive assy.
Models Covered: PDP4330HD, PDP433P, PDP5030HD, PDP503CMX, PDP503P, PRO1000HD, PRO800HD, PSP433CMX
Tip Date: October 01 2002
The Tech Name: Jeff Andrews

Symptom: Unit powers down with 5 red blinks. Follow troubleshooting chart (labeled "Diagnosis or the error point in the various protection circuit operation") in service manual or training guide.
Cure: If unit still powers down after unplugging power connector to X -drive, Y-drive and audio assys. you have an address problem. Remove pin 5 of the P2 connector on the P/S assy. If unit then stays on but picture is very distorted with possible image "burned" into the picture do the following check; Check for 60VDC at SAA1 plugs of Sub Address assys. to confirm P/S is outputting Vaddr (60V). If so, check for 60Vat CN6702 (any pin). If missing, the Address Resonance Assy. is probably bad.
Models Covered: PDP433CMX, PDP433PU, PDP503CMX, PDP503PU, PRO1000HD, PRO800HD
Tip Date: September 11 2002
The Tech Name: Jeff Andrews